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INDEX RAFINESQUIANUS

The plant names published by C. S. Rafinesque with
reductions, and a consideration of his methods,
objectives, and attainments

By
ELMER D. MERRILL



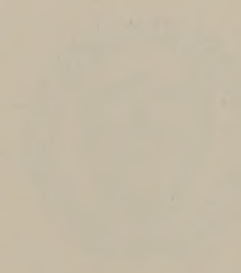
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PREFACE

THIS VOLUME is not biographic, although in it I have assembled a considerable amount of more or less pertinent information regarding that strange character, Constantine Samuel Rafinesque, on whose published botanical work it is based. The body of the text proper consists of lists of all the generic, specific, and varietal names for plants proposed by Rafinesque that I have been able to locate in his widely scattered published papers. Their equivalents in terms of modern nomenclature have been indicated as far as it has been possible to make reasonably accurate reductions. Accurately to place most of his very numerous new generic names has proved to be a relatively simple matter as Rafinesque was one of the earliest disciples of the type method. Reductions of his even more numerous new binomials is much more difficult chiefly because of his usually very inadequate original descriptions.

It is doubted if in the entire history of descriptive biology there is any other author who has suffered more from the weight of authority than Rafinesque. The leading biologists of his time, both in Europe and in America, ignored his numerous nomenclatural proposals to an extraordinary degree, whether he was correct in his conclusions or not. The lesser lights of the times could only follow their leaders. There was at that time no strict priority rule, and individual authors were free to exercise considerable latitude in the selection of plant names. Asa Gray, in 1841, in his essentially fair evaluation of Rafinesque's published botanical work, recognized the situation, stating: "Many of Rafinesque's names should have been adopted, some as a matter of courtesy, and others in accordance with strict rule." About the best that we can do, a century or more after the Rafinesque proposals were published, when it is discovered that one of his correctly published generic names has priority over a more recent and currently accepted one proposed by some other author, is promptly to add the now offending earlier Rafinesque name to the already over-long list of officially rejected ones. The reason, of course, is that this procedure obviates many undesirable changes in currently accepted and widely used plant names. It is perhaps worthy of note that within the present decade, at least two new generic names have been proposed which were unnecessary, for *Ipheion* Raf., 1837, was based on the same type as *Beauverdia* Herter, 1941, and *Stethoma* Raf., 1838, has more than a century of priority over *Psacadocalymma* Bremekamp, 1949.

Whatever else one may say regarding Rafinesque, one must admit that he was very adept in selecting short euphonious generic names for the new entities that he proposed. For those who are intrigued with the meanings of generic names, most of which are derived from classical sources, Rafinesque's work presents many puzzles. Because he firmly believed in short names and strenuously objected to sesquipedalian ones, he did not hesitate to eliminate entire syllables in order to attain his objective. He rarely explained the origin of a name proposed by him, but one striking case illustrates his method. In publishing the name *Diodeilis* he states "abridged from *Diodontocheilis*." The end result, *Diodeilis*, would scarcely indicate to the most skilled classical scholar its source as from the Greek, meaning a plant the flowers of which have a two-toothed lip.

His new generic names total about 2,700, a vastly greater number than those proposed by any other botanist, and nearly twice as many as those recognized by Linnaeus in the middle decades of the eighteenth century when the binomial system was established. Yet only about 30 of these Rafinesque names have been generally accepted although on the basis of strict priority at least 160 would qualify. Many more Rafinesque names could be added by those disciples of the idea of subdividing large collective groups such as *Euphorbia*, *Acacia*, *Mimosa*, *Cassia*, etc. Thus Messrs. Britton, Small, Rydberg, and others to a lesser degree, have within the past half century reinstated certain Rafinesque generic names as they subdivided various large genera. Their procedure in accepting such names was correct, even if perhaps many botanists may not elect to follow them in recognizing few to many smaller genera in place of a single large one.

There are still those who consider that Rafinesque was insane, this same view having been expressed by some of his contemporaries. From some of Rafinesque's numerous publications one

could build up a rather convincing case against his sanity; yet from other selections it could be shown that he was essentially sane, even if he was erratic. Those who hold the insanity belief would argue, I suppose, that he, being mentally beyond the pale, was therefore irresponsible, and that consequently his admittedly often ill-conceived and very numerous nomenclatural proposals in both botany and zoology should, or at least could, be ignored.

It is clear that most of Rafinesque's published work in descriptive biology was rather consistently ignored by his contemporaries and immediate successors. It was only with the development and general acceptance of the essentially equitable rule of priority among both botanists and zoologists, about a half-century after Rafinesque's death, that systematists commenced to give some attention to his nomenclatural proposals. Thus in the past fifty or sixty years a considerable number of Rafinesque's earlier generic names, which he proposed in good faith, have been reinstated; and those proposed at later dates by individuals ignorant of what he had proposed, dropped into synonymy. The result, of course, was a very considerable amount of name changing under the priority rule. Many of Rafinesque's generic and specific names, properly published in the early decades of the last century, still remain unlisted in standard indices. One of the objectives in preparing this document was to remedy this unflattering situation. Certainly with the almost universal acceptance of the priority and homonym rules the names should at least be listed; this I have accomplished.

Doctor R. E. Call's *The Life and Writings of Rafinesque*, published in 1895, gives us an eminently fair appraisal of Rafinesque's aims and accomplishments. He states that as he assembled the data regarding Rafinesque it was his hope:

"That a better and more intelligent understanding of this eccentric naturalist might result. A number of impressions were forced upon my attention as the work proceeded; among other conclusions reached was the one that Rafinesque has not been treated always fairly by his contemporaries. Resulting from this was the conviction that many naturalists now living had formed opinions concerning the nature and value of Rafinesque's work, which appear to me to be quite erroneous. In the hope that some of these misapprehensions might be corrected, the task of writing his life, which is quite a labor of love, was undertaken."

Rafinesque was a strange character, a man with unusual attainments, tremendous energy, and remarkable mental ability; yet unstable, vacillating, and one who frequently, too frequently, demonstrated his lack of appreciation of the realities of life. Being uncontrolled and uncontrollable, he alienated the sympathy of most of his immediate associates, and of all contemporaneous biologists. He firmly believed that in the issuance of his very numerous scientific and popular papers he was making serious contributions to the sum of human knowledge. He was, in many respects, distinctly ahead of the times in which he lived, and was actually a pioneer in many utterly diverse fields of human endeavor.

It can truthfully be said that to a remarkable degree he lived only to publish. His bibliography as worked out in great detail by Professor J. T. Fitzpatrick, in his *Rafinesque. A Sketch of His Life with Bibliography*, issued in 1911, is an impressive work with approximately 940 titles. This list of Rafinesque's publications, if we use Fitzpatrick's criterion as to what constitutes an individual title, has now been increased to more than 1,000 items. In considering Rafinesque's publishing activities one is, in a way, reminded of one of the numerous strange characters in George Borrow's *Lavengro*, the nameless author (Chapter LXVI) who had the habit of touching various objects to baffle the evil chance, and whose life had become an uninterrupted series of doubts, anxieties, and trepidations in the fear that he might be charged with plagiarism by some of the readers of his published works. When asked why he did not give up authorship, since it caused him so much mental suffering, he responded: "Once an author always an author." Not that Rafinesque touched to baffle the evil chance, as did the Borrowian character, nor that he had any inhibitions, doubts, anxieties, or trepidations regarding the quality and value of his published works; rather, when once launched on his unbridled publishing career, he could not stop as long as he had funds with which to cover the printing costs or could find editors willing to accept his offerings for publication in serial literature. Thus with him "once an author always an author" definitely applies, and publishing became a sort of mania. It mattered little to him that his

offerings were for the most part consistently ignored by the scientists of his generation in both the United States and in Europe. He planned vast undertakings and from time to time published lists of titles of volumes he proposed to prepare and issue; if these plans had been consummated his ultimate published output might perhaps have been twice as great as it actually was at the time of his death in 1840 when he was 56 or 57 years old. It is perhaps fortunate that most of these projected works never appeared in print.

The enumeration of Rafinesque's published technical names of plants is reasonably complete; that is, unless some future bibliographer discovers some hitherto overlooked paper of that voluminous author. The chances of any such discovery are rather remote, considering the vast amount of research which has been prosecuted by competent bibliographers in the last half-century. My work has been done in the same spirit that inspired Doctor Call and Professor Fitzpatrick to compile their important basic works on Rafinesque; that is, to try, even at this late date, to render some justice to Rafinesque for what he accomplished that was good.

"Time renders justice to all at last," quoted from Rafinesque's *Life of Travels*, p. 92 (1838), has scarcely been fulfilled in his case. In spite of the priority rule now followed by both botanists and zoologists, Rafinesque's earlier proposals are still frequently ignored. The height of egotistical absurdity is reached when one recent author, in an attempt to maintain one of his own binomials against a much earlier one of Rafinesque, which may represent the same species, uses the term "outdated literature" as a part of the argument to support his contentions. In all of Rafinesque's very numerous publications in the field of descriptive biology, no matter how severely we may criticize him as to detail, he did in general conform to established tenets. To salvage the few solid grains from among the overwhelming mass of chaff in Rafinesque's nomenclatural proposals, as Fernald has expressed it, is a task that needs to be done. We may agree that it would have been better for modern biologists concerned with problems of nomenclature had Rafinesque never published a single paper on descriptive biology, but publish he did, and on an extraordinarily extensive scale, and we must do the best that we can with his numerous proposals. Rafinesque, like very many other botanists, including many modern ones, never realized that a new plant name, once published, is irrevocable.

The surprising thing, in view of the relatively early dates of Rafinesque's publications, is the slight number of changes in the technical names of plants that will be occasioned if advantage be taken of the method by which certain correctly used but more recent generic names may be conserved against his earlier ones. The list of officially conserved names is already a long one. In it we find no less than 90 of Rafinesque's earlier names rejected in favor of later ones proposed by other authors. In this work it is noted that there are about 60 or more additional cases where Rafinesque's names have priority, and where the principle of conserved generic names has not been invoked. Under the provisions of the last edition of the International Code of Botanical Nomenclature, these sixty-odd earlier generic names could be adopted. Thus it would be possible now to change approximately 2,000 plant names by transferring the specific epithets from generic designations now in general use to the earlier Rafinesque ones; the remedy here is the conservation of additional selected names.

In this work I have merely prepared the lists, leaving the matter of making recommendations as to which Rafinesque generic names should be rejected to specialists, monographers, and individuals familiar from long experience with special floras. This is not a local, nor even a North American problem, for Rafinesque's proposed new names apply to the floras of all parts of the world. This volume has not been made a vehicle for the publication of new names, and so far as I am aware no new generic or specific names appear in it.

The preparation of this volume was rendered possible through two modest grants, one of \$600.00 from the Penrose Fund, American Philosophical Society, and a similar amount from the Milton-Clark Fund of Harvard University. I wish also to thank numerous individuals who have assisted in one way or another, particularly by scanning the Rafinesque entries in groups with which they are familiar, with a view to detecting errors in reductions and possible omissions. Among these are Mrs. Agnes Chase of the Smithsonian Institution who examined all of the Gramineae

entries, Doctor S. F. Blake of the Bureau of Plant Industry, U. S. Department of Agriculture, who checked the Compositae entries, Doctor F. P. Pennell, Academy of Natural Sciences of Philadelphia, who handled the Scrophulariaceae, Doctor Mildred Mathias and Doctor Lincoln Constance, University of California, who checked the Umbelliferae items, the latter also checking the Hydrophyllaceae entries, Doctor R. E. Woodson, Jr. of the Missouri Botanical Garden, who checked the Asclepiadaceae, Doctor T. G. Yuncker of Purdue University who examined the entries in *Cuscuta*, and Doctor Donovan Correll and Mr. Charles Schweinfurth, Botanical Museum, Harvard University, who assisted in reference to certain Orchidaceae items. As entries were noted that were thought to appertain nomenclaturally to species that occur within the range covered by Gray's Manual, these were called to the attention of Professor M. L. Fernald of the Gray Herbarium, who critically considered each case. Others who have assisted include Doctor W. H. Camp and Doctor H. L. Moldenke, New York Botanical Garden, Mr. C. A. Weatherby, Gray Herbarium, Mr. E. P. Killip, Smithsonian Institution. Staff members of the Arnold Arboretum who have assisted on special problems include Professor Alfred Rehder, Doctor I. M. Johnston, Doctor C. E. Kobuski, Mr. E. J. Palmer, Doctor C. K. Allen, Doctor L. M. Perry, Doctor Leon Croizat, Mrs. Lazella Schwarten and Mr. V. C. Asmous.

Finally I wish to express my appreciation to the numerous friends of the Arnold Arboretum whose generous responses to the 1946 appeal for a Rafinesque publication fund rendered the issue of this volume possible.

March 30, 1949

E. D. MERRILL

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INTRODUCTION

"Woe to you, when all men speak well of you, for so did their fathers to the false prophets," Luke VI. 26. Perhaps this Biblical text does not apply to what follows, for no taxonomist who concerns himself with complicated problems of nomenclature has any right to expect that all of his colleagues will agree with all of his conclusions. Some have been highly critical of certain of my findings, and in publishing their dissenting views have doubtless derived as much pleasure in so doing as did I in reaching my own conclusions, which admittedly were in error in some cases. What one normally attempts to do is the best that one can on the basis of the data available to him; sometimes the critics have access to additional data, sometimes not.

These nomenclatural discussions often tend to be verbose and are usually of only academic interest even if individuals occasionally make emphatic statements under the assumption perhaps that their conclusions are the only correct ones. In this category is Gleason's¹ recent plea in support of the commendable idea that well-known names should be retained. He devotes somewhat more than eight pages of text to the discussion of four specific cases, taking strong exception to the conclusions of Fernald, Rehder, and Rosseau. He might take just as strong a stand against my recent change of the technical name of the allspice² (*Pimenta officinalis* Lindl.) which now becomes *P. dioica* (Linn.) Merr., this change being in strict accordance with the priority rule. Perhaps on the basis that Linnaeus erred in describing *Myrtus dioica* Linn. as dioecious when the specimens actually before him had perfect flowers, not male and female ones on separate plants, one might argue that an error of this type would invalidate such a binomial as *Myrtus dioica* Linn. There is no warrant for such an assumption. I heartily agree that it is most undesirable to change the technical name for such a well-known economic plant as the allspice which for a century and a quarter has in general been known under the Lindleyan epithet.

In the four cases discussed by Gleason one may accept his conclusions and retain the specific names which he advocates, or one may accept the names adopted by the three botanists to whose conclusions he took exception. In so far as the species involved are considered in this work I follow Fernald and Rehder, with perhaps a mental reservation that both may have been in error.

In discussing the general problems associated with a consideration of modern investigations of the work of

early botanists, I have previously³ expressed my opinion as follows:

"I know that I have been subjected to published and spoken criticism by various botanists working on problems involving species described by Rumphius, Blanco, Llanos, Burman, Osbeck, and Loureiro, particularly when my conclusions have shown the necessity, under the prevailing rule of priority, of displacing a widely used binomial in favor of an earlier one in accordance with the principle of priority. On the publication of my study of Loureiro's genera and species, a former associate who knows little or nothing about the problems involved, is reported to have expressed the opinion that it ought to be suppressed! Why not go the whole distance and suppress Loureiro's original work as well as the publications of all botanists whose species are not actually represented by extant types, including even the high percentage of the Linnaean species that fall in this category? We should at least be logical. In some cases pages of print have been used to show, in great detail, how my conclusions cannot possibly hold; and in general the argument *contra* is no more convincing than the original argument *pro*. In any case of disagreement the position of the dissenter could have been stated in a very few words rather than perpetrating pages of mere verbiage regarding what, after all, are really very minor and really inconsequential points."

The Biblical text quoted at the beginning of this discussion certainly does not apply to Rafinesque, for very few who knew him personally, and no one who is familiar with his super-erratic published work could commend either his methods or his published results. No matter what personal opinions of this *Index Rafinesquianus* may be, or even the propriety of preparing the text, it is a bibliographic task very long overdue.

UNEASY CRITICS

I have been mildly amused by statements repeated to me, said to have been made by this or that contemporary. I suspect that in some cases the criticisms were due to an uneasy feeling on the part of John Doe or Richard Roe, on learning of my contemplated excursions into the Rafinesque field, that perhaps they may have slighted their own bibliographic obligations by ignoring his work. They may insist that their own conclusions are correct and that these should be accepted by others, even as Rafinesque maintained this attitude persistently in reference to his own work.

Yet they blandly disregard the fact that in ignoring the validly published names of Rafinesque, their contemporaries and successors may perhaps find as much justification in ignoring or modifying the conclusions of those who object to Rafinesque and all that he proposed. There is much evidence to indicate that many systematic botanists have ignored the proposals of the strange character on whose diffuse publications this work is based, or have glossed over his work in a most

¹ Gleason, H. A. The Preservation of Well-Known Binomials. *Phytologia* 2: 201-212. 1947.

² Merrill, E. D. The Technical Name of Allspice. *Contr. Gray Herb.* 165: 30-38. fig. 1. 1947.

³ Merrill, E. D. A Generally Overlooked Rafinesque Paper. *Proc. Am. Philos. Soc.* 86: 72-90. 1942 (p. 83).

perfunctory manner. I have been accused of wasting my time by one who naively admits that he knows all about these Rafinesque names, which is really taking in considerable territory; and others express dire misgivings with no knowledge of what was planned and what is now effected. One might rather safely predict that one review may consist of three words: "Adds to synonymy"; this it does in no uncertain manner. There are those who elect to follow the easy way and they will doubtless sympathize with James Britten's comment, *Jour. Bot.* 59: 184. 1921, on Pennell's discovery of the unlisted Rafinesque generic names that were published in the *Autikon Botanikon* (1840): "We do not think botanists generally will congratulate Mr. Pennell or themselves on the discovery." Pennell listed 84 overlooked generic names; what would Britten say to the extraordinary list of 740 in the same category included in this *Index Rafinesquianus*?

It is suspected that these uneasy critics believed that it was my objective to make an intensive study of all the Rafinesque botanical outpourings along the lines of my earlier somewhat intensive studies of the works of Rumphius, Burman, Osbeck, Blanco, Llanos, Loureiro, and Houttuyn, to say nothing of those of early authors nearer the home scene, such as Bartram, Eaton, Muhlenberg and Chapman. They doubtless thought that I would let the nomenclatural chips fall where they might, and that in doing this would make a great many changes in the currently accepted names of plants on the basis of priority, perhaps modified only by the official list of conserved generic names. I propose no new names in this work because I personally do not believe that indices, encyclopedias, dictionaries, and even descriptive local floras are proper vehicles in which to publish them. I have, however, published one preliminary article in which a few changes in names, ten in all, are proposed.⁴ The surprising thing is that in view of the large number of new names proposed by Rafinesque, and the relatively early dates of their publication, the first four decades of the last century, that so very few changes in nomenclature are indicated.

I have accordingly merely prepared the list of new names proposed by Rafinesque, as far as I was able to locate them, leaving it to contemporary and future botanists to accept or reject a Rafinesque name in accordance with their individual judgments; and if they elect to replace a currently used generic name by an earlier Rafinesque one, then it is they who will have to transfer the specific names and become responsible for them under the newly accepted generic name. A glance at the entries on page 20 will show that with the usually accepted concepts as to generic limits, as expressed in standard treatments of families and genera plus a certain number of proposed minor generic segregates, there are about 90 cases where Rafinesque's generic names should be adopted in place of currently accepted ones that were published at later dates by

other authors; and if one wishes to follow the precepts of the New York school as developed by Messrs. Britton, Rydberg and Small and accepted by Rose and others, by subdividing the larger and admittedly collective groups such as *Caesalpinia*, *Bauhinia*, *Mimosa*, *Cassia*, *Acacia*, *Euphorbia*, and other large genera, the number of "new" generic entities from Rafinesque alone would be increased to approximately 170. If one wished to do so one could, under the tenets of the International Code of Botanical Nomenclature, change the names of approximately 2000 species of plants by rejecting certain currently used generic names, accepting the earlier ones of Rafinesque, and transferring all of the binomials involved. It is anticipated that this situation will be taken care of at the next International Botanical Congress by officially rejecting many of these earlier and thus offending Rafinesque generic names; in some cases as many as 200 binomials are involved in individual generic groups.

THE ORIGINAL PLAN

It was never my intention to make an intensive study of the Rafinesque proposals other than to try to indicate, as far as this could reasonably be done, what the equivalents of his numerous new genera and new species were in terms of modern nomenclature. Certainly an index of this type is not the place in which to publish new names and if any of the latter appear in the body of the text, this would be merely by inadvertence or oversight. Even had I elected to make such an intensive study I was clearly not equipped by either knowledge or experience to accomplish a creditable task. In handling the numerous Rafinesque problems one has literally to consider the entire world flora, for in his various publications he named and described plants from all the continents and from the larger insular areas, including genera and species from the tropics of both hemispheres, the north and south temperate zones and even from subarctic regions. In comparison with this Rafinesque project intensive studies of Blanco's *Flora de Filipinas*, Loureiro's *Flora Cochinchinensis*, or Rumphius' *Herbarium Amboinense* were relatively simple because of the restricted areas covered by those authors, essentially the Philippine Islands, parts of Indo-China and adjacent China, and the Island of Amboina.

The objective, now attained, was to list the new generic, subgeneric, specific, and varietal names published by C. S. Rafinesque, the most erratic botanist of all time, over a period of nearly four decades, closing with his death in 1840. It is not an apology for Rafinesque, nor is it an argument in favor of any general acceptance of his propositions. It has been known for many years that there were a great many validly published but unlisted technical names of plants in various of Rafinesque's publications. Considering the nature of his published works, the obscure places of publication of many of his papers, and their non-availability in many of the more important botanical centers

⁴ Merrill, E. D. Nomenclatural Notes on Rafinesque's Published Papers 1804-1840. *Jour. Arnold Arb.* 29: 203-214. 1948.

of the world, the surprising thing is, perhaps, that so many of his new names were detected and are listed in standard indices.

THE BEARING OF THE HOMONYM RULE

Because we do have a definite homonym rule, and for no other particular reason, it was decided that the time had come when the task should be undertaken. Manifestly the work should have been done a half century earlier, but it is perhaps fortunate that no botanist of that period could find the necessary time to compile the data. The extremists who elected to follow the American code, one of the basic tenets of which was strict priority in publication, were too busy with their own foibles and their own taxonomic problems to bother very much with Rafinesque, and the conservatives were not interested. Thus it was that the former, and we can now say fortunately, missed the magnificent opportunity of displacing many scores of currently used generic names by different and validly published ones that Rafinesque had proposed at earlier dates than those which were, and still are, accepted. Personally, no matter what contemporary botanists may think about the usefulness of this work, or even the propriety of publishing it, I believe that it is a reflection on American botanical bibliography that the task was not accomplished a half century earlier.

In view of a resurgence of interest in Rafinesque in recent years an attempt has been made to evaluate his work from a botanical standpoint. The results are in no way flattering to Rafinesque. One of the reasons for doing this is the gross misinterpretation of the significance of Rafinesque's work by certain authors, at least one of whom (p. 50) should have been in a position, from his own botanical experience, to realize the utter falseness of the position he took.

DEVELOPMENT OF INTEREST IN RAFINESQUE PROBLEMS

My adventures with Rafinesquiana commenced in 1940 when I accidentally located a previously overlooked Rafinesque botanical paper that had been published somewhat over a century earlier and which contained a considerable number of validly published but unlisted new names for North American flowering plants.⁵ Noting that this paper had been overlooked by Fitzpatrick⁶ and by all other bibliographers, other than the editors of the *Catalogue of Scientific Papers*, published by the Royal Society of London (1867-1925), it was made the subject of a special consideration in 1942.⁷

⁵ Rafinesque, C. S. Remarques botaniques sur quelques plantes de l'Amérique Septentrionale, dans les quatre premiers volumes du *Prodromus ou Synopsis plantarum* de de Candolle. Act. Soc. Linn. Bordeaux 6: 261-269. 1834.

⁶ Fitzpatrick, T. J. Rafinesque. A Sketch of His Life With Bibliography. 1-241. pl. 1-32. 1911.

⁷ Merrill, E. D. A Generally Overlooked Rafinesque Paper. Proc. Am. Philos. Soc. 86: 72-90. 1942.

BIBLIOGRAPHIC ASPECTS

Fitzpatrick's very critically prepared Rafinesque bibliography, containing as it does 939 titles of published Rafinesque papers, with data on various unpublished manuscripts, letters, etc., and a *Bibliotheca Rafinesquiana* listing 134 papers by other authors about Rafinesque, proved to be of the very greatest assistance. Without this very exhaustive treatment it is doubtful if I should have had the courage to initiate work on this project, and without it I should undoubtedly have overlooked important papers published in out-of-the-way places. Rafinesque was a past master in publishing technical papers in periodicals where normally one would not look for such material, and he further published an extraordinary number of privately printed contributions ranging from small pamphlets to large volumes. Most fortunately Doctor Charles S. Sargent, in building up the remarkably rich library of the Arnold Arboretum,⁸ assembled a noble series of Rafinesque publications, unmatched, as far as the actually published Rafinesque botanical papers are concerned, in any other library. It is, in fact, the largest and most important assemblage of Rafinesque publications to be found in any single library, for it contains a great many of his works in fields entirely outside of botany. There are only a very few centers where it would be possible to compile a work like this *Index Rafinesquianus*, and of the three other possible centers in North America, all reasonably rich in Rafinesque publications, each one lacks many items that are available here. Thus in the botanical field, of all of the very numerous known Rafinesque botanical papers it became necessary to seek in other places only a very few items. The only known copy of Rafinesque's unimportant *American Florist* (1832) is in the Yale University library; the only known copy of the suppressed Rafinesque *Western Minerva or American Annals of Knowledge and Literature* (1821) is that preserved in the library of the Academy of Natural Sciences of Philadelphia. Lacking here was also the second volume of Rafinesque's *Specchio delle scienze* (1814), the essential data from which were secured through photostats of parts of the volume in the above Philadelphia library; but a nearly complete unbound set of this work, with its original fascicle covers, lacking only the last number of volume two, was acquired by mere chance in 1946. For pages 49 to 80 of the *Herbarium Rafinesquianum* (1833), the pertinent data were kindly supplied by Doctor A. D. Cotton of the Royal Botanic Gardens, Kew, Surrey, England, as the only known complete copy in American libraries was not available during the war years. For papers published in the *Saturday Evening Post* I consulted the individually incomplete sets in the Widener Library of Harvard University, Boston Public Library, and the Library of Congress, and was thus fortunate in being able to examine every number for the years 1827 to 1832, the period that

⁸ Merrill, E. D. Rafinesque, With Notes on His Publications in the Harvard Libraries. Harvard Libr. Bull. 2: 5-21. 1948.

Rafinesque published therein. For the Rafinesque papers published in the *Kentucky Gazette* (1822) I also had to depend entirely on the set in the Library of Congress, but unfortunately a few pertinent numbers are missing in that set. For the Rafinesque botanical papers published in the *Western Review and Miscellaneous Magazine* (1819-21) the sets in various Boston and Cambridge libraries were consulted. However, it was possible to check the vast majority of all Rafinesque entries listed in this index within the walls of the one library where the work was compiled. This last statement may be interpreted as an appreciation of the sagacity of the first director of the Arnold Arboretum, Charles Sprague Sargent, in building up its remarkable library, and especially for his foresight in acquiring rare items and in specializing in certain fields, one of these being Rafinesque's publications and Rafinesquiana.

ORIGINAL ESTIMATES

When I rather lightheartedly took up this Rafinesque compilation in 1942 I had little concept of the amount of time and energy that its completion would entail, although I was, at that time, somewhat familiar with many of Rafinesque's publications. My first estimate was that there might be perhaps 1200 unlisted Rafinesque generic and specific plant names; later the number was raised to 2500. When I made the last estimate I was not prepared even to think that the list might approximate 3300 names that up to this time have remained unlisted in our standard indices. See p. 17.

No one can say with confidence that all of Rafinesque's widely scattered published papers have been located. Witness the fact (p. 13) that in the few years that I have devoted a part of my time to an investigation of Rafinesque problems about 43 (or 95, depending on what constitutes a title) previously unlisted Rafinesque papers have been located, some of which contain new technical names for plants.

THE NEED OF INVENTORIES

Doctor L. H. Bailey, in a paper entitled *Botanical Science and Its Applications*, read at the fall meeting of the American Philosophical Society, October, 1946, spoke of the work of Linnaeus in his *Species Plantarum* and in his *Systema Naturae* as probably the greatest inventory devised by man in the field of biology, his argument being that without an inventory there is no valid discussion of objects. In my mind it is high time that we have an inventory of Rafinesque's nomenclatural proposals, and this paper is an attempt to provide it. Clearly had such an inventory been made earlier Rafinesque would not have been penalized to the extent that he manifestly was by his successors. Nor would the numerous botanists who followed Rafinesque have made so many grievous errors in naming and describing many scores of new genera and new species that Rafinesque had already described under different and incidentally valid names. The time lapse varies from

a year or two, or sometimes only a matter of weeks or months, to a century or more in favor of Rafinesque. In speaking of Rafinesque Bailey characterized him as:

"Energetic, voluminous, nonconformic. From him we inherit a divergence that has profoundly affected the course of botany and other biologic science in this country. Caution was not an attribute of Rafinesque, as it was of John Torrey and Asa Gray and, for that matter, of Linnaeus. His practice touches a man's freedom to describe a new species, confused in his case by careless and undocumented work. To him Gray was a 'lumper' and to Gray Rafinesque was a 'splitter.' The two words are not ornaments to our botanical history, as if the author were under obligation to defend himself if he described a new species. Yet to this day some of our North American genera have remained a sealed book. We do not adopt the method of Rafinesque; we accept much of his work because we have to. It is a strange commentary on biological progress that through the generations we have resisted the numbers of species yet have accepted with applause the results of morphological and physiological and genetical studies."

STRANGE ATTITUDES

Some botanists believe in thorough bibliographic work, others apparently do not. I quote from Gleason's recent paper mentioned above:

"The code does require that they [the taxonomists] use the oldest known legitimate epithet, not *the oldest one as yet unknown* (italics mine). If they insist on looking up hitherto unknown names, then they should be consistent and investigate all encyclopedias, all books of travel, all textbooks of horticulture, all back volumes of the Congressional Record, all printed literature in every language, and thereby be sure that they have really found the oldest name."

I find no warrant whatever in the code for "not the oldest one as yet unknown." One may observe that some thousands of unlisted names occur in strictly botanical literature as is demonstrated in this *Index Rafinesquianus*; and generally speaking unlisted generic and specific names represent entities "as yet unknown." One might interpret Gleason's statement to mean that all such names could be ignored, merely because through clerical and botanical oversight they have remained long unlisted and hence for the most part "unknown."

He might have included nurserymen's catalogues, for many of these do contain new plant names, even if the *Congressional Record*, most general books of travel, most textbooks of horticulture and most of the printed literature in all languages are sterile fields as far as new plant names are concerned. But all botanists recognize such general encyclopedias as that of Rees (1802-1820), the *Penny Encyclopedia* (1833-1858), and a few others, some encyclopedias of horticulture, and certain garden dictionaries as legitimate sources of new plant names, and most of the new names published therein are actually listed in our standard indices. If an occasional new name that first appeared in one of the above works was overlooked when *Index Kewensis* was prepared—and there are in such works certain overlooked and hence as yet unlisted plant names—no reason exists for not recognizing them should they be older than currently used epithets; in fact no provision has ever been made for rejecting such fugitive names.

Actually every botanist who follows the code tries to select the oldest legitimate name for each species. There is nothing in the rules that would eliminate the oldest *unknown* (i. e., unlisted) name; but no one's ignorance or carelessness should set a standard. Again merely because an individual will not take the time to do thorough bibliographic research is no excuse. Article 16 of the code is categorical in that it provides that every group must bear the earliest name consistent with the rules. This, far from permitting an author to content himself with what he happens to know, implies some obligation on his part to do the necessary and desirable bibliographic research. Any other course merely places a premium on carelessness.

Personally I am inclined to interpret the Gleason plea as one in support of superficial bibliographic research. Would not a simpler solution be the adoption of a new provision in the International Code of Botanical Nomenclature to the effect that any binomial which has been accepted as valid for, let us say, a century or more, may not be replaced by an earlier published one? Such a rule would negate the, in general, equitable rule of priority, in part, but it would also eliminate the very numerous Rafinesque names which I have unfortunately unearthed, as far as these are actually earlier than currently used ones.

Neither am I impressed when a modern author apparently uses the term "outmoded literature" as a part of an argument to support a more recent binomial against an earlier Rafinesque one. In 1924 Ames⁹ published a standard enumeration of the orchids of the United States and Canada, each admitted species being provided with a rather full synonymy; it is assumed that a serious attempt was made to account for all synonyms. Apparently because certain binomials based on material from certain parts of the United States were unlisted in *Index Kewensis*, a number were overlooked. Fernald¹⁰ in one of his papers published in *Rhodora* discussed some of these fugitive binomials, but Ames¹¹ disagreed with him regarding the status of *Spiranthes tuberosa* Raf. The former may have erred in his interpretation of Rafinesque's species, and Ames may be correct in his contention. It is, however, rather curious that, perhaps as a sort of defence against his earlier oversight, he accused Fernald of resurrecting "from outdated literature the obscure species *Spiranthes tuberosa* Raf. (1833)." It were better had he not used the term, for as long as early authors followed certain specific tenets, as Rafinesque did in this case, there is in botanical literature no such a category as "outdated." We may admit that with the abundant material now available we could perhaps accomplish a much better task than did some of our predecessors, but it is egotistical in the extreme to use the term "outdated" as a part of an argument to cover up one's own shortcomings.

⁹ Ames, O. An Enumeration of the Orchids of the United States and Canada. i-viii. 1-120. 1924.

¹⁰ Fernald, M. L. *Rhodora* 48: 5-13 1946.

¹¹ Ames, O. Commentaries on *Spiranthes* I. Bot. Mus. Leaflet. Harvard Univ. 13: 17-30. pl. 1-3. 1947 (p. 17).

INDEX KEWENSIS

The preparation and publication of this *Index Rafinesquianus* should in no sense be considered as a criticism of the indispensable *Index Kewensis*. The fact that a considerable number of Rafinesque's botanical publications were not and for that matter are not now available in London or in European libraries, explains some of the omissions. This applies particularly to those Rafinesque works issued in the decade between 1830 and 1840 in Philadelphia. Rafinesque's editions of his privately published works were small, distribution in his lifetime was limited, and most of the undistributed stock was destroyed following his death. Most or all of the few American botanists of that time considered that the erratic Rafinesque's published works were valueless, and hence considered that they could be ignored, which they did to a remarkable degree.

In my earlier years I brashly published a list of overlooked and unlisted binomials with 123 names in my *Interpretation of Rumphius' Herbarium Amboinense*, pp. 46-50. 1917, these having been located while studying Rumphian and Blancoan problems with only the very limited library facilities then available in Manila at my disposal. After that initial list I commenced to record additional overlooked names. From time to time these were transmitted to Kew for checking and ultimate inclusion in that supplement to *Index Kewensis* currently under preparation. My estimate of such transmissions is about 1200 names; as a matter of some interest those detected and listed in the war years alone, 1939-45, exceeded 500. However, this *Index Rafinesquianus* project became so involved, and its scope so great that it seemed best in this case to list all of his new names, all places where the names appeared in Rafinesque's published works, and further to indicate those that were unlisted and those where corrections were indicated.

UNLISTED TECHNICAL NAMES

If the working taxonomists in general had adopted the policy of reporting unlisted binomials as these were detected then doubtless the coverage in *Index Kewensis* and its ten supplements would have been much more complete than is actually the case. It would also have simplified the work of their contemporaries and successors. Everybody will admit, in view of all factors, that it is highly desirable that our one standard index should be as complete and as accurate as it is possible to make it. I cite here a case in point. It was the practice of the late Doctor John K. Small to include at the end of his various volumes on the flora of the southeastern United States, on which region he was the outstanding authority, a list of all the new names that he published in each volume. This is a convenience to the two or three living bibliographers who must concern themselves with listing new names with references to their places of publication, but is otherwise rather insignificant. But when an author does accept an earlier and as yet unlisted but validly published name, and

includes it in his text without a reference to the place where it first appeared, it is indeed exasperating when one is forced to search the literature to complete the record. An excellent example is *Peltandra glauca* (Ell.) Feay; Small, *Manual of the Southeastern Flora* 246. 1933. This is not listed in *Index Kewensis* and curiously its name-bringing synonym, *Caladium glaucum* Ell. *Sketch of the Botany of South Carolina and Georgia* 2: 631. 1824, is also not listed. Actual publication of *Peltandra glauca* was by Feay in Wood's *Class-book of Botany* 669. 1861, a most unexpected place, there based on *Caladium glaucum* Ell., this also unlisted. Yet on pages 1503 to 1509 of his work Small lists nearly 260 new names that appeared for the first time in that volume—as if the actual publication of new names was an end in itself; he never mentioned the original places of publication of the two overlooked binomials above discussed. It has been pointed out elsewhere, *Bartonia* 24: 28. 1947, that the names of various described species, often universally accepted by all botanists, have been recognized for many decades and yet appear in no standard index, such as the two mentioned above, *Polygonum natans* Eaton (1822), *Rumex hastatulus* Baldw. (1817), *Salix obovata* Pursh (1814), and *Arabis hastata* Torr. (1818). It is no wonder that taxonomists are frequently charged with deliberately making transfers so that the authority for a binomial may appear as *Fulano de Tal*. Yet all taxonomists appreciate the fact that changes of names are inevitable if one elects to follow the provisions of the International Code of Botanical Nomenclature, as long as the concept as to generic limits ebbs and flows, and as long as the essentially equitable priority and homonym rules prevail. The productive botanist must of necessity propose new names on occasion whether he desires to do so or not, and for this he should not be censured.

Some of Rafinesque's new names, which were overlooked when *Index Kewensis* was compiled, were included in later supplements to that indispensable work, notably those that appeared in his papers published in the *Cincinnati Literary Gazette* in 1824, and the new generic names with their type-species from the *Autikon Botanikon* (1840), the latter compiled from Pennell's paper of 1921; but a great many new binomials in the *Autikon Botanikon* still remained unlisted as no copy of it was available at Kew. There are other overlooked volumes each with many new names such as the *Herbarium Rafinesquianum* (1833), and the *Good Book* (1840).

In spite of the fact that certain papers in the *Good Book* have been reissued as facsimile reprints in modern times, reprinting alone does not insure the inclusion of the names therein published in any standard index. I refer to the *American Midland Naturalist* reprints of Rafinesque's *The Natural Family of Carexides*, and *Scadiography of 100 Genera of Umbelliferous Plants*, both originally printed in 1840 and both republished in 1913; they contain a large number of new generic and specific names, originally published more than a century ago and still unlisted in spite of the 1913 reprints.

Another striking case is the Rafinesque paper published in volume eight of *Loudon's Gardener's Magazine*, in 1832, republished by Schlechtendal in *Linnaea* in 1833, and again by Britten in the *Journal of Botany* in 1900; and yet the few new names appearing in this thrice-published paper are still unlisted.

Until I accidentally encountered an unlisted and hence ignored Rafinesque paper, published in 1834, I was not prepared to discover in certain basic and other secondary works appertaining to the flora of the United States, issued between the years 1788 and 1897, a relatively large number of validly published but unlisted technical names of plant species. Because these names were unlisted, most of them had escaped the attention of students of the North American flora and of monographers as well. Studies completed on the works of Bartram (1791), Eaton (1817-1840), Muhlenberg (1793-1818), Wood (1845-1881), and Chapman (1860-1897),¹² plus the Rafinesque investigations, yielded a total of about 750 validly published but unlisted new generic names and about 3195 new binomials in the same category, or a grand total of nearly 4000. Further these studies demonstrated the fact that other still unlisted new names appear in such classical works as those of Michaux, Pursh, Nuttall, Elliott, Torrey, Asa Gray, and other botanists who concerned themselves primarily with studies on the plants of North America in the nineteenth century.

CERTAIN RAFINESQUE BINOMIALS NOT LISTED IN THIS INDEX

It is a rather sad commentary on certain editorial practices, and on the work of certain authors, that one notes as published in our time various new Rafinesque binomials proposed by him in letters written more than a century ago which appear in non-botanical literature as some of these old letters are published. There is every reason why certain old letters should be published but in editing them there are certain tenets which should be observed. In the case discussed below, where new Rafinesque binomials are involved which I have not listed, it is regrettable that some competent taxonomist familiar with plant names was not consulted in order to obviate various gross errors. Certain it is that Rafinesque never wrote certain names and certain titles of botanical works in the form in which they were printed.

In an interesting paper on Rafinesque¹³ published

¹² Merrill, E. D. In Defence of the Validity of Bartram's Binomials. *Bartonia* 23: 10-35. 1945.

—— & Reeder, J. R. New Plant Names Published by Amos Eaton Between the Years 1817 and 1840. Op. cit. 24: 26-79. 1946 [1947].

—— Unlisted Names in Alfonso Wood's Botanical Publications. *Rhodora* 50: 101-130. 1948.

—— Unlisted Binomials in Chapman's Flora of the Southern United States. *Castanea* 13: 61-70. 1948.

—— & Hu, Shiu-Ying. Unlisted and Incorrectly Listed New Binomials in the Publications of Henry Muhlenberg. Ined.

¹³ Perkins S. E., III. Letters by Rafinesque to Dr. Short in the Filson Club Archives. *Filson Club Hist. Quart.* 12: 202-239. 1938.

in 1938 eleven letters written by him between the dates of July 17, 1818 and November 5, 1834 are published. In these various botanical binomials appear, some actually indicated as representing new species, and, incidentally, species which Rafinesque never otherwise considered. These names being strictly *nomina nuda*, and appearing in definitely non-botanical literature, I have, in general, ignored them as being unworthy of consideration. It is, however, extraordinary how many errors appear in the spelling of some of these technical names, errors for which Rafinesque cannot be held responsible. The author states: "Many of his spelled-out words in his hastily written letters are almost beyond deciphering. Each one of the few that could not be deciphered is represented by a question mark in brackets." It is to be regretted that these new binomials were not eliminated entirely and their place taken by a line of dots or by a long dash, that is, by actually cancelling these manuscript names when the letters were published. This same statement applies to certain botanical titles which contain grossly misspelled words. Rafinesque's chirography might, in places, be difficult, but this is no excuse for making him appear more careless than was actually the case.

We note such strangely corrupted generic names as *Capicetora*, *Hedyclarum*, *Heptallor*, *Esochitld*, *Panox*, *Ararum*, *Minotropa*, *Puduslima*, *Pyreatherum*, and *Thegium*, among others; and such erroneously spelled specific names as *deltifolio*, *urticifolio*, *rupertris*, *scrotina*, *sphacdata*, *fruticopa*, *pennila*, *torviler*, *serpetosa*, and others of this nature. It is usually very evident what Rafinesque intended, but whoever transcribed the names merely proved that he did not know botanical usage or botanical terminology. Equally gross errors are made in certain cited authors and titles, such as "Herbanium" [Herbarium] Rafinesquianum, Linnaeus' "Opesa" [Opera] omnia, and "Gonelië" [Gmelin] Systema Vegetabilium.

One other recent case occurs to me where the author in preparing an early manuscript (1815-20) for the printer perpetrated similar gross errors. This is outside of the Rafinesque field and is hence not further considered at this time. I merely mention the reference¹⁴ for the benefit of those who may be interested in considering what strange things can happen to printed binomials when these are transcribed from old and not always too clear handwriting; and yet every gross error made by both of these modern authors could very easily have been avoided.

A MODERN BOTANIST'S CONTRIBUTION

To those who reproduce old manuscripts on descriptive botany—and there is every reason why some of these should be reproduced simply because of their historical importance—such previously *unpublished* technical names as may appear in the original copy

should be cancelled. A series of dots or a long dash to take the place of the "new" names would detract nothing from the real value of the paper and would avoid adding to our already over-burdensome synonymy. A relatively recent case which occurs to me is the publication by H. N. Ridley¹⁵ of an old Hunter manuscript on the flora of Penang. This was written in 1802 or 1803, and if it had been published then, many of Hunter's new binomials would have been the accepted ones for individual species; most of his descriptions are ample, and it is possible from these definitely to place many of the species which he then proposed. But the publication of their technical names, more than a century after the manuscript was prepared, merely adds to synonymy, for in the interim undoubtedly all of the species which Hunter considered to be new at the beginning of the last century, have in the meantime been described by other authors under other names.

Even Ridley, who correctly reduced about half of Hunter's binomials as synonyms, naively says "there are several I have not been able to guess at from description"; and some he did not even guess at, leaving the burden of identification to others in spite of the fact that he then probably knew more about the intricacies of Penang botany than any other individual ever has. Half of Hunter's names of 1802 or 1803, actually published by Ridley in 1909, represent species of doubtful status, for Ridley made only about 20 definite reductions to species named and described by later authors. He indicated about 10 more as probably or possibly representing this or that species, leaving about a dozen with no suggestions as to what might be represented, except that in some cases the genus was indicated. Here we have about 40 old binomials which never should have been published, half of which for an indefinite period will probably appear in that unflattering category, if mentioned at all, of *species incertae sedis*. Most of Hunter's binomials in this 1909 paper are listed in supplement four to *Index Kewensis*. The following unimportant ones were overlooked by the compilers of that work:

Ardisia *nutans Roxb. ex Hunter, Jour. Straits Branch Roy. As. Soc. 53: 77. 1909, non A.D.C. Penang.
Mespilus *pomifera Roxb. ex Hunter, op. cit. 95. Penang = *Eriobotrya japonica* Lindl.
Myristica *oblonga Hunter, op. cit. 119. Penang.
Pterospermum *parvifolium Hunter, op. cit. 103, non Miq. Penang.

Not included in the supplements to Christensen's *Index Filicum* are:

Acrostichum *calamarium Hunter, op. cit. 124. Penang.
Blechnum *longifolium Hunter, op. cit. 126. Penang.
Blechnum *petiolatum Hunter, l.c. Penang.
Hemionitis *pinnatifida Hunter, op. cit. 125. Penang.

THE BASIC OBJECTIVES OF THIS INDEX

In this index a serious attempt has been made to detect and to list all of the published Rafinesque tech-

¹⁴ Davis, R. B. An Early Virginia Scientist's Botanical Observations in the South. Virginia Jour. Sci. 2: 132-139. 1942.

¹⁵ Hunter, W. Plants of Prince of Wales Island. From a MS. in the British Museum. Jour. Straits Branch Roy. As. Soc. 53: 49-127. 1909. Edited by H. N. Ridley.

nical names of plants in all categories other than his names for major groups above the status of the genus. At the same time an attempt has been made to list each name wherever it may appear in Rafinesque's widely scattered published papers, so that the index is more than merely a list of names with their original places of publication. It is actually an index to all Rafinesque references in all of his own botanical publications. An attempt has been made to list also those Rafinesque names that other botanists actually published, although no critical search has been made of the vast literature of systematic botany with the view to locating all of these; most such names are already included in *Index Kewensis*. These names were for the most part those appearing on herbarium specimens that Rafinesque distributed, but names which, for one reason or another, he never published. Occasionally one notes strange cases of casual publication such as the hitherto unlisted *Nelis repens* Raf. It occurs in Lindley's *Collectanea botanica* sub pl. 25. 1821 (*Goodyera pubescens* R. Br.) as: "We believe M. Rafinesque has somewhere called this plant *Nelis repens*." I have been unable to locate any other consideration of this name. It is suspected that it was taken from a Rafinesque letter, for the latter was in correspondence with Lindley.

A rather serious attempt has been made to determine the status of the very numerous new generic names proposed by Rafinesque. In most cases it has been possible to indicate what he intended to characterize in spite of his usually very sketchy and incomplete descriptions, and his practice of ignoring the importance of documentation; with him documentation was reduced to the very lowest level or was ignored. The generic equivalents or reductions are indicated; many of these reductions differ from those listed in standard works.

As to the Rafinesque binomial-reductions suggested previous to 1900, many of these have been rejected for one reason or another. In the case of more modern and critical studies the conclusions of competent specialists have been accepted, and frequently the desirable bibliographic references have been added. Somewhat more than 1500 Rafinesque binomials appear in the list with no suggestions as to what species of this or that earlier or later author may be represented. It will, of course, be understood that usually these entries do not indicate that the binomials represent valid species, but rather that intensive studies of the descriptive data have not been made by competent authorities. Undoubtedly the vast majority of these unreduced binomials represent species described under other names previous to the Rafinesquian eruptions. Occasionally, here and there, there will be a solid grain among the chaff, as Fernald has expressed it, which should be salvaged. Clearly, however, and largely because of Rafinesque's carelessness and brevity, many of these proposed "new species" never can be placed with certainty for the simple reason that he failed to mention their essential differential characters. It is not, in general, recommended that currently used binomials be replaced by earlier Rafi-

nesque names which were based on actual specimens no longer extant, unless it can be proved with reasonable certainty that the two different names actually appertain to the same species. More than one-half of the 1500 names that have not been placed are strictly *nomina nuda*, names which have no standing and are hence to be ignored. The total number of Rafinesque specific names that have been accepted by all or by some of his successors is very small whether under the generic designation indicated by him or transferred to some other generic name by others. The total will not exceed 150, even including Rafinesque specific names that are now accepted as of varietal rank. What a commentary on the nature of Rafinesque's work when it is realized that he actually published about 6700 new binomials! Accepted as of this date are only about .02 percent. The chances of any material increase in acceptance are very small.

DOCUMENTATION

It has already been noted that in all of Rafinesque's publications documentation is conspicuous by its absence or by its being reduced to an absolute minimum. Even when he published a new name ostensibly by transfer he often failed to cite the name-bringing synonym or merely hinted at it. He has been freely accused of accepting the ideas of this or that author and publishing their views as his own. There is little evidence that leads me to accept these accusations against Rafinesque, but I conclude that he acted in good faith, but all too frequently failed to add the desirable references or credit lines. Thus in no place where he sets forth his striking views on organic evolution, for which he has not been given due credit, does he even hint that these ideas did not originate with him; yet in other places he frankly admits that Adanson originated the ideas in 1763 and thus to Adanson rather than to Rafinesque the credit should be rendered (see p. 47).

In various places in this document (pp. 28, 58) I have cited illustrative examples of Rafinesque's publication of new technical names without or with a minimum of documentation. Too frequently it was his practice to cite a specific name that he placed under a new generic name without indicating its authorship or the name-bringing synonym. This involves difficulties in such genera as *Carex*, *Aster*, *Salix*, and other large groups, for not infrequently different species have inadvertently been described under the same specific name by different authors; and in Rafinesque's work, where one wishes to indicate reductions, one cannot always be positive which species Rafinesque had in mind.

In such references as "bot. reg. 343," "bot. m. 3041," "Jaq. hort. 287," "Callic. do Lour," "Rumph. 3, t. 46," "Rheed 1 t. 43," "Lor. do RP.," etc., I have, where necessary, in the body of the text completed the references to volume, page and plate number, and date of publication of such works as the *Botanical Register*, the *Botanical Magazine*, Jacquin's *Hortus Schoenbrunnensis*, Loureiro's *Flora Cochinchinensis*, Rumphius's *Herba-*

rium Amboinense, Rheede's *Hortus Malabaricus* and Ruiz and Pavon's *Flora Peruviana*, etc. Where Rafinesque manifestly erred in citing the wrong volume or plate number, or occasionally when he confused the work of Rheede with that of Rumphius, corrections are made. Such errors do exist, and they have, in some cases, led to strange reductions of certain of Rafinesque's generic names. Thus *Karkendela* Raf. is actually a synonym of the rhizophoraceous *Carallia* Roxb., but because of Rafinesque's error in citing the volume number of Rheede, this appears in current literature as a synonym of *Musa* Linn.

RAFINESQUE'S OWN SYSTEM OF CLASSIFICATION, AND RULES OF NOMENCLATURE

It should be remembered that Rafinesque actually proposed his own system of classification, devising a name not only for the plant kingdom in his *Phytonia*, but also names for classes such as *Eltrogynia*, *Mesogynia*, *Endogynia*, *Gymnogynia*, *Phanerogynia*, *Cryptogynia*, *Algosa*; orders such as *Rhodanthia*, *Perimesia*, *Monospermia*; suborders in *Rhodopsia*, *Oligaria*, *Adnatheria*; and families in *Magnolidia*, *Thalcitridia*, *Strobilia*, *Rhamnida*, etc. He, of course, did not originate all of the names that he used, but accepted or adapted many of those proposed by earlier authors.

He also devised his own rules of nomenclature which apparently other botanists never accepted. This explains some of his modifications of earlier proposed generic and specific names. His innovations in the modification of nomenclature, and his attempt to establish a natural system of classification failed, for other botanists and zoologists were not impressed. They consistently ignored Rafinesque's efforts except, here and there, as this or that individual accepted a Rafinesque genus or species. No reason exists for even listing Rafinesque's names for major groups above the genus. His terminology is utterly at variance with that of systems that did prevail, and his terms are scarcely comparable with names for major groups accepted in modern times. For those who may be interested in examining his attempts to establish a natural system of classification, a system that even he did not follow in his larger published works, the four works here listed should be consulted.¹⁶

If one examines Rafinesque's works with an unprejudiced mind it is evident that he did have a distinctly uncanny ability in detecting generic relationships, and that in his system of classification he did in

many cases bring manifestly closely allied genera into association with their congeners in natural groups or families. Thus in his *Amentacea* he included *Populus*, *Salix*, *Betula*, and *Myrica*. These are now placed in the *Salicaceae*, *Betulaceae*, and *Myricaceae*, the three families being reasonably close to each other. He should not be misjudged merely because he also included in the same family *Platanus* of the *Platanaceae*, *Cecropia* of the *Moraceae*, and *Pandanus* of the *Pandanaceae*, the latter a monocotyledonous group. Another strange example is his family *Mesophoria*, consisting of *Forskalea*, *Parietaria*, *Gnetum*, *Xanthium*, *Ambrosia*, and *Franseria*, these genera now being correctly distributed into the *Urticaceae*, *Gnetaceae* (a gymnosperm), and *Compositae*. Still another example is his family *Ilexia*, in which he placed two utterly different genera, *Ilex*, correctly, and *Cordia*, the latter belonging in the very different *Boraginaceae*. These examples are taken at random from his first attempt to arrange the plant kingdom in his proposed new system of 1815.

His later essay on natural classification, forming pages 26-80 of volume one of his *Flora Telluriana* (1837) is just as inconsistent, for there we find *Pinus*, *Populus*, and *Ficus* placed in one order, the *Axanthia*; *Urtica*, *Rumex*, *Ulmus*, *Laurus*, and *Protea* placed together in another order, the *Monospermia*; *Sapindus*, *Portulaca*, *Hypericum* and *Euphorbia* in still another order, the *Polymesia*; *Polygala*, *Veronica*, *Justicia*, *Sesamum*, and *Mimulus* forming the *Plasygyria*; and *Primula*, *Plantago*, *Oxalis*, *Achras*, and *Ardisia* placed in the *Stemesia*. There are many more similar illogical arrangements such as the strange alignments of *Ephedra* and *Casuarina* forming the *Ephedromes*; *Ficus*, *Carica*, *Adansonia* ? and *Pavia* ? forming the *Sicomes*; *Plantago* and *Dionaea* forming the *Scapomes*.

It should be remembered that in many cases Rafinesque had no specimens representing the genera he tried to place in his attempt to make a natural arrangement of the major groups, and that he often depended on published descriptions and illustrations. He was scornful of those who made critical dissections of the fruits and seeds, as well as of those who insisted on the finer details of floral structure. One gains the idea that to a considerable degree he was guided by gross similarities; and yet even then it is difficult to understand how he arrived at certain groupings. No European, much less any American botanist, gave the slightest attention to his system, and it, with many others that were proposed in the first half of the nineteenth century, simply went into the discard. Nothing is to be gained by even considering his strange ideas at this time, except, perhaps, as a very minor episode in botanical history; and yet Rafinesque's insistence on accepting a natural system of classification at a time when most of his American associates were pronounced Linnaeists was one of the reefs which wrecked his reputation among his contemporaries, others being his monomania for describing new genera and new species, his brief and sketchy descriptions, his general carelessness in

¹⁶ Rafinesque, C. S. *Principes fondamentaux de Somiologie ou les Loix de la Nomenclature et de la Classification de l'Empire Organique ou les Animaux et des Végétaux*. 1-50 [1-2]. 1814. Palerme.

——— *Précis des Découvertes somiologiques ou zoologiques et botaniques*. 1-55 [1]. 1814. Palerme. Reissued in 1948 by offset reproduction. Peter Smith, New York.

——— *Analysis de la Nature ou Tableau de l'Univers et des Corps organisés*. 1-224. 1815. Palerme.

——— *Flora Telluriana* 1: 26-101. 1836 [1837]. Philadelphia.

presentation, and his sometimes caustic criticisms of the work of other botanists.

In these strange tendencies, his contempt for others, frequently expressed in no uncertain language, his inability to get along with his associates in the Elysian field of botany, his unbounded confidence in his own ability, his contention that he was, in the main, always right, and that his critics were wrong; and with absolutely no realization of the fact that he needed access to vastly greater and more comprehensive collections and much larger botanical libraries than were available to him, his efforts were to a very large degree dissipated. He was quixotic in the extreme. One may admire his capacity for work, his persistence in assembling very large collections of natural history material, the eagerness with which he very closely followed botanical publication of his time, and his very extensive correspondence with numerous European and American botanists of his generation. One may give him credit for having an extraordinary mind, even if he was more or less blind to his own weaknesses. Manifestly he had a most extraordinarily wide knowledge of the published literature of botany, yet his varied qualifications availed him not.

One of Rafinesque's faults, when he proposed new generic names based on previously described species of which he had no representative specimen, was his tendency to select on the basis of one or two characters only, ignoring other features. This is well illustrated by *Octella* Raf. proposed as a segregate from *Melastoma* Linn., the species with 4-lobed calyces, 4 petals, 8 stamens, and 4-celled fruits. Included in *Octella*, by suggestion, but not actually published as species of this genus, "types, several octandrous sp. but must all be examined again," are fifteen species of *Melastoma*, now actually placed in the genera *Charianthus* D. Don, *Tetrazygia* L. C. Rich., *Clidemia* D. Don, *Henriettella* Naud., *Calycogonium* DC., *Ossaea* DC., *Melastoma* Linn., *Miconia* Ruiz & Pavon, and *Mecranium* Hook. f. How far wrong one may go in assuming that all the species in a group having eight stamens may represent a single genus is thus indicated.

METHODS USED IN COMPILING DATA ON WHICH THIS INDEX WAS BASED

The technique that was developed in the preparation of the data on which this Index is based was to compile on half sheets all of Rafinesque's original descriptions and all of his suspected new names with what he published regarding each one. This proved to be faulty, for it developed that Rafinesque had his own ideas regarding orthography and changed many names proposed by his predecessors and his contemporaries at will, usually without any indication of such changes. It would have been better had a slip been written for every technical name used by Rafinesque, no matter how many times it might have been repeated in his numerous publications. It is believed, however, that most of these more or less fugitive modified names were detected and listed when the entries in the first draft were checked on

the original papers. This was done with two objectives in view, to discover possible errors in the names and in the citations, and to locate more or less validly published modified names that might have been overlooked. After the very numerous half sheets were prepared they were arranged in an alphabetic sequence by generic names in the form of an extensive card catalogue from which a strictly alphabetic enumeration was compiled.

REASONS FOR SELECTION OF THE FORM OF PRESENTATION

Because of the fact that included in this work are all the Rafinesque references to new names for the cellular and vascular cryptogams, groups not covered in *Index Kewensis*, in preparing the data for publication it was decided to distribute the generic entries by natural groups, and as to the phanerogams, broken down to families. There were other reasons for this, one being the fact that subgenera, sections, and varieties are also included, none of which are considered in *Index Kewensis*.

With the accepted arrangement the specialist considering any particular group with which Rafinesque concerned himself will find in one place all the names, with references, that Rafinesque proposed, whether the names were validly published or not. It may be that occasionally an error has been made in placing this or that Rafinesque genus in the wrong natural family, but it is believed that such errors will prove to be few in number. On the whole the advantages of the system adopted will far outweigh any possible disadvantages.

Because so many of the proposed Rafinesque generic segregates that were entirely correct have been overlooked for so long, and in the interim the same groups have been characterized by other authors under different and later published generic names, it is hoped that the arrangement herein adopted may prove to be a practicable method of avoiding similar future errors. It is not anticipated that the majority of botanists will become infected with the Rafinesquian idea of numerous generic segregates in the larger groups which was so persistently exploited within the past few decades by the New York school. If individuals elect to follow this course it will be well for them to scan these Rafinesque lists. Doubtless in many cases, as Messrs. Britton, Rydberg, and Small discovered, even if the latter did overlook a surprisingly large number of names that he should have adopted instead of proposing entirely new ones (see p. 25), Rafinesque will be found to have proposed names which may be used. Both generic and subgeneric names are involved. Clearly it is preferable to accept a published name whenever possible rather than to propose an entirely new one when one elects to subdivide such collective genera as *Euphorbia* Linn., *Cassia* Linn., *Acacia* Willd., *Bauhinia* Linn., and *Carex* Linn. In more than 130 cases in genera of the collective type, or those proposed by Linnaeus and later very loosely interpreted by his successors, Rafinesque proposed from few to many generic names for segregated

groups; and it is usually possible to decide exactly what group he intended his new name to represent, because he normally indicated his type-species or listed the species that he referred to his new genus, thus making it possible to select a type. He was an early disciple of the type-concept which has come into its own only within the last few decades of the present century.

DECAPITALIZATION OF SPECIFIC NAMES

My personal preference has been to decapitalize all specific names regardless of their origin, this being in accord with universal zoological (but not botanical) usage. This policy has been followed in this *Index Rafinesquianus* except in quoted passages. True the International Code of Botanical Nomenclature recommends that: "Specific (or other) epithets should be written with a small initial letter, except those which are derived from the names of persons (substantives or adjectives) or are taken from generic names (substantives or adjectives)." This is a recommendation, not a rule, leaving individuals choice in the matter. Doctor L. H. Bailey, *Gent. Herb.* 7: 168-178. 1946, is strongly in favor of the practice of using capital initial letters in specific cases, presenting his arguments in a conservative but telling manner. Professor Fernald¹⁷ in his discussion of *Sedum Rosea* versus *Sedum roseum* has added his unrestrained typically Fernaldian arguments to Bailey's plea. One who might be undecided might be influenced by Bailey's restrained statement. In contrast he might resent Fernald's utterly unrestrained argument, for one judges from his presentation that all who prefer uniform decapitalization are, in his mind, a group of botanical pariahs. I quote Fernald's statement in his discussion of the *Sedum Rosea* case:

"This binomial presents an interesting case for those self-styled 'progressives' and standardizers (who are never progressives) who would destroy the clues to origins of specific names by uniformly decapitalizing them all. If they decapitalize *Rosea* and make it look like a feminine adjective (which it is not) they appear uninformed as to the gender of *Sedum*; if they insist on *Sedum roseum* they wholly misrepresent the truth. As L. H. Bailey well says: 'A binomial is more than a name for a plant. It has history and significance. If decapitalization obscures this significance then it should be used with caution. One who disregards the meanings is not sensitive to words, and he may deprive nomenclature of one of its interesting assets,' Bailey, *Gent. Herb.* vii. 171 (1946). He further says: 'There is . . . no sense in [decapitalized] *Polygonum convolvulus*, *Daphne mezereum*, *Convolvulus soldanella*, *Acacia julibrissin*, *Jatropha manihot*, *Brassica pe-tsai*, *Phaseolus mungo*, *Psoralea onobrychis*, *Zea mays*' (Bailey, p 172). All this was clearly understood by Linnaeus, Lamarck, Willdenow, the De Candolles, the Hookers, Kunth, Torrey, Gray, Engler and countless others (even Britton, Rydberg, and Small, in many ways radical rather than progressive), who have initiated real progress in the science, although, before doing so, they did not announce themselves as 'progressive.' They were truly progressive because their work demonstrated them to be so and because they had real respect for good usage and understanding of words. One is not a progressive merely by adopting that misused term as a mask for intellectual inertia or lack of linguistic

insight, any more than the self-appointed candidate for political office is a statesman simply by so labeling himself. Some of the younger 'progressives' who adopt that unearned tag . . . would do well, if they are not superior to being instructed, to read and digest the whole discussion in '*Species-names with capital letters*' (Bailey, l. c. 168-171) by the always progressive dean of all of us."

Even at the risk of being charged with intellectual inertia and with a lack of linguistic insight, to say nothing of being superior to being instructed, and after considering various arguments *pro* and *contra*, I am still of the opinion that decapitalization of all specific names is to be preferred, and that current zoological practice is superior to conservative botanical usage. One wonders what Fernald's reaction would be to the practice among certain entomologists who have strayed so far from the classical field that any pronounceable jingle of letters forming an utterly meaningless specific name is good entomological usage. Presumably he would capitalize them. Almost simultaneously with the Fernaldian explosion quoted above this editorial announcement appeared in the *Kew Bulletin* 1947: 48. 1947:

"Beginning in 1947 all specific epithets will be printed with a small initial letter. This decision has been reached in order to insure uniformity, and to avoid the unwarrantable expenditure of time on research when the use of capitals is in doubt. The arguments in favor of following the modified recommendation passed by the Amsterdam Congress, 1935, have not been ignored in reaching this decision, but they appear to be very definitely outweighed by practical considerations."

Doubtless this botanical tempest in a teapot will continue to rage. The conservatives will continue to be conservative, and will rail against dictation from above on what, after all, is an utterly inconsequential matter. In the United States, historically, the botanists in government employ, whether they approved or not, for some decades have been obliged, by ukase, to decapitalize all specific names. But a very considerable number of others, outside of governmental influence, have elected to follow the simpler method now gaining support elsewhere in spite of all that can be said against what the ultra-conservatives would characterize as the nefarious practice of uniform decapitalization of all specific names.

DIFFERENCES IN ENTRIES

If one examines the entries in this work and compares them with those included in *Index Kewensis*, one difference will be noted. I have elected to list the Rafinesque names as published, correcting only an occasional case ending. Thus it is that Rafinesque published 13 binomials under *Brunella* Linn. But in *Index Kewensis* the generic entry is "BRUNELLA Tourn. ex Linn. Syst. ed. 1 (1735)=Prunella Linn." with the *Brunella* specific entries all placed under *Prunella*, except those entered in supplements one to eight. Technically the Rafinesque *Prunella* entries in *Index Kewensis* appear there as new binomials. Rafinesque deliberately selected *Brunella* stating that the ten species were described under "Brunella (misspelled Prunella by error of the press)," *New Fl. N. Am.* 2: 32. 1836

¹⁷ Fernald, M. L. *Sedum Rosea*, not *S. roseum*. *Rhodora* 49: 79-81. 1947.

[1837]. He might have objected to his species being listed under *Prunella*, not that this makes any very great difference one way or the other. There are a great many more or less similar cases in this *Index*. Presumably the average botanist would be content to consider most of these as variant spellings and ignore the fact that they really are new names, particularly where there is a differential of only one letter in a generic name such as *Theaphyla* as actually published by Rafinesque, and *Theaphylla* as the entry appears in *Index Kewensis*. It frankly does appear to be rather pedantic to enter seven *Theaphyla* items credited correctly to Rafinesque, and the same seven also under *Theaphylla* and credited to "Raf. ex Jacks*. Ind. Kew." In spite of the advantages of the *Index Kewensis* system of listing all *Galearia* names under *Gaillardia*, *Xanthoxylum* under *Zanthoxylum*, *Brunella* under *Prunella*, and numerous other similar cases, I have consistently accepted the variant Rafinesque spellings. We cannot say that typographical errors were involved in such cases, knowing that Rafinesque deliberately changed names when he did not approve of the original spelling. His acceptance of the spelling *Theaphyla* was deliberate, not a typographical error, because of his strong feeling against double letters as parts of technical names.

UNPUBLISHED NAMES CREDITED TO RAFINESQUE

There are, unfortunately, a great many Rafinesque binomials published in *Index Kewensis* for the first time. These have been entered as "Raf. ex Jacks*. Ind. Kew." and the total number is approximately 640. A classical example is Jackson's treatment of nineteen species of *Convolvulus* which he credited to Rafinesque as transferred to *Tirtalia*, Raf. *Fl. Tellur.* 4: 71. 1836 [1838]. An examination of Rafinesque's treatment shows that he did publish *Tirtalia striata*, *angustifolia*, *emarginata*, *maxima* and *sibirica* as transfers from *Convolvulus*, but for the other fourteen he merely indicated that these species of *Convolvulus* belonged in a third subgenus characterized as *Phaestis* but he actually did not transfer the names to *Tirtalia*.

CORRECTIONS TO INDEX KEWENSIS

In addition to these rather numerous Rafinesque binomials that Jackson actually published for the first time there is another category of corrections to *Index Kewensis*. These are, for the most part, earlier places of publication of Rafinesque's names than as entered in *Index Kewensis*; such names (approximating 330) are indicated by the sign †. The fault here is largely that of Rafinesque himself who not infrequently considered the same genus or the same species several different times, being exceedingly careless of or very sketchy in his bibliographic references; in fact anything approaching completeness in bibliographic references is conspicuously absent in Rafinesque's published works. He apparently did not believe in documentation, leaving the burden of bibliography to his successors. Otherwise

the number of corrections is small, for the misspelled Rafinesque names in *Index Kewensis* are very few; remarkably few when one considers the erratic nature of Rafinesque's own published work, and the manifest sketchiness of his proof-reading.

REASONS FOR OMISSIONS IN INDEX KEWENSIS

It is a well-known fact that in compiling *Index Kewensis* it was assumed that the entries covering the early published works were reasonably complete in such lists as Steudel's *Nomenclator*, Buek's *Index* to De Candolle's *Prodromus*, and the indices to Willdenow's edition of the *Species Plantarum*, Sprengel's edition of the *Systema Vegetabilium*, and other general works of this type. Thus, if the earlier monographers or authors of more generalized works overlooked a binomial published before the middle of the nineteenth century, such overlooked names frequently did not appear in *Index Kewensis*. Then, too, in a work of such magnitude and covering the world literature of systematic botany, it was inevitable that certain publications were overlooked either because of their rarity or because it was thought unlikely that new names might appear here and there in this or that work. Personally, I think it is expecting too much for the very few individuals who are charged with the recording of new names in current literature, one for the entire world, one for North and South America, to detect absolutely the last new name, and at the same time recheck the older literature where it is known, or suspected, that validly published and as yet unlisted binomials occur.

ADDITIONS TO THE RAFINESQUE BIBLIOGRAPHY

Rafinesque was an untiring worker and a persistent, even if a misguided, author and publisher. He apparently believed that everything he wrote, even some of his correspondence, was worthy of publication. As long as he could persuade various editors to accept his offerings, or he had funds with which to pay the printing bills for his rather extraordinarily large series of private publications, the number of items reached gargantuan proportions. From the date of publication of his first technical paper in Paris in 1803 and others in New York from 1804-1808 until his death in 1840 he was indefatigable.

I have already indicated that I should have hesitated to initiate work on this project but for the comprehensive Rafinesque bibliography published by Prof. T. J. Fitzpatrick¹⁸ in 1911. While no special search has been made for additions to his long list, a curiously large number of Rafinesque titles have been detected in the course of checking botanical and other literature in connection with the preparation of this text. In my system of numbering, the additions total 44, including various modern reprints of certain Rafinesque works. If, however, Fitzpatrick's system of numbering be

¹⁸ Fitzpatrick, T. J. Rafinesque. A Sketch of His Life With Bibliography. 1-239, illus. 1911 (pp. 65-219).

followed, the additions would be increased by approximately 90, and this would bring the Rafinesque total to more than 1000 published items. Were I preparing a Rafinesque bibliography I should doubtless combine in one entry all *School of Flora* items and also should not list the individual parts of certain volumes as separate publications. I specify the numerous *School of Flora* items for reduction to a single entry because there is no subsidiary title for any of the individual articles; I might not similarly reduce the various entries under *The Cosmonist*, *Museum of Natural Sciences*, *Clio*, etc., for with these each one has a distinctive subtitle. On this basis the number of separate Rafinesque papers would be reduced from 939 as listed by Fitzpatrick to about 820, and the newly located items in my system of numbering would increase this to about 860.

Undoubtedly the largest amount of new data regarding Rafinesque is that to be found in the numerous unpublished manuscripts and letters now available in the libraries of the Academy of Natural Sciences, and of the American Philosophical Society in Philadelphia. Many of these items have only recently become available for study. It was from this source that Doctor Pennell drew much of the data utilized by him in preparing his paper of 1942, included in the succeeding list of additions to the *Bibliotheca Rafinesquiana*. I have a list of these manuscript items and have actually examined some of them. I have not attempted to include these as a part of the Rafinesque bibliography.

Rafinesque, C. S. [Precis of Rafinesque's Remarks. Lyceum of Natural History. Sitting of Sept. 1, 1817]. *Am. Monthly Mag. Crit. Rev.* 1: 453. 1817.

Contains certain new names for plants and fishes of Long Island, and a summary of his preamble to his *Florula Ludoviciana*.

——— *Natürliche Verwandtschaften zwischen den Sippen Viscum, Samolus und Viburnum*. *Isis von Oken*, 1821, 2: 977-979. 1821.

A German translation of Fitzpatrick no. 345.

——— *Beschreibung und natürliche Classification der Floerkea*. *Isis von Oken*, 1822, 2: 1320-1321. 1822.

A German translation of Fitzpatrick no. 284.

——— *Drei neue Pflanzensippen aus dem Staate New York*. *Isis von Oken*, 1822, 2: 1321-1323. 1822.

——— A German translation of Fitzpatrick no. 285: *Cylactis*, *Nemopanthus*, and *Polanisia*.

——— *Über Myosurus Shortii*. *Isis von Oken*, 1822, 2: 1323. 1822.

A German translation of Fitzpatrick no. 286.

——— *Diplocea*, neue Grassippe von Rafinesque. *Isis von Oken*, 1822, 2: 1324. 1822.

Republication of Rafinesque's description of 1818; supplementary to Fitzpatrick no. 281.

——— *Sketches of America by a Traveller*. *Sat. Eve. Post* 5 (41): [1], Oct. 14, 1826; Third Sketch, *Real Names of Columbus*. 5 (43): [1], Oct. 24, 1826; Fourth Sketch, *East Kentucky or New Kentucky*. 5 (45): [2], Nov. 11, 1826; Fifth Sketch, *the Upper Potowmack River*. 5 (48): [1], Dec. 2, 1826.

Signed "Americus" but clearly written by Rafinesque.

——— *American History*. *Sat. Eve. Post* 7 (44): [1], Nov. 7, 1826.

Signed "Historicus" but apparently written by Rafinesque.

——— *Capt. Symmes' Theory of the Earth*. *Sat. Eve. Post* 6 (289): [2], Feb. 10, 1827.

Signed "Americus."

——— [Remarks on an Essay on Botany]. *Sat. Eve. Post* 6 (293): [4], March 10, 1827.

Republication of the same item from the Casket; supplementary to Fitzpatrick no. 479.

——— *Grape Vines*. *Sat. Eve. Post* 6 (294): [2], March 17, 1827.

Unsigned, but clearly by Rafinesque.

——— *Medical Discovery*. *Sat. Eve. Post* 6 (303): [2], May 19, 1827.

Unsigned article on pulmel, certainly by Rafinesque.

——— *Medical Notice*. *Sat. Eve. Post* 6 (325): [3], Oct. 20, 1827.

Signed "Medicus."¹⁹

——— *The School of Flora*. *Cephalanthus occidentalis*. *Sat. Eve. Post* 6 (312): [4], July 21; *Juniperus communis* 6 (335): [4], Dec. 22, 1827; *Spartium scoparium* 7 (336): [4], Jan. 5, 1828; *Sigillaria multiflora* 7 (338): [4], Jan. 19, 1828; *Tussilago nivea* 7 (339): [4], Jan. 25, 1828; *Apocynum androseifolium* 7 (340): [4], Feb. 2, 1828; *Clinopodium vulgare* 7 (341): [4], Feb. 9, 1828; *Ornithopus compressus* 7 (345): [4], March 3, 1828; *Eryngium maritimum* 7 (346): [4], March 15, 1828; *Hepatica triloba* 7 (356): [4], May 24, 1828; *Hibiscus speciosus* 7 (357): [4], May 31, 1828; *Ipomea quamoclit* 7 (359): [4], June 14, 1828; *Scutellaria lateriflora* 7 (360): [4], June 21, 1828; *Aquilegia canadensis* 7 (363): [4], July 12, 1828; *Alchemilla alpina* 7 (364): [4], July 19, 1828; *Nuttallia grandiflora* 7 (367): [4], Aug. 9, 1828; *Bryonia alba* 7 (368): [4], Aug. 16, 1828; *Chelone glabra* 7 (372): [4], Sept. 13, 1828; *Fraxinus quadrangularis* 7 (375): [4], Oct. 4, 1828; *Cotyledon umbilicus* 7 (377): [4], Oct. 18, 1828; *Gentiana sponaria* 7 (379): [4], Nov. 1, 1828; *Primula veris* 7 (381) [4], Nov. 15, 1828; *Paris quadrifolia* 7 (385): [4], Dec. 20, 1828; *Oxycoccus macrocarpon* 7 (386): [4], Dec. 20, 1828; *Cactus grandiflorus* 7 (387): [4], Dec. 27, 1828; *Eupatorium perfoliatum* 9 (447): [4], Feb. 20, 1830; *Cypripedium luteum* 9 (453): [4], April 3, 1830; *Asclepias tuberosa* 9 (459): [4], May 15, 1830; *Convolvulus panduratus* 9 (462): [4], June 5, 1830; *Frasera verticillata* 9 (470): [1], July 31, 1830; *Gillenia stipulacea* 9 (474): [1], Aug. 28, 1830; *Cunila mariana* 9 (480): [1], Oct. 9, 1830; *Gentiana catesbei* 9 (486): [1], Nov. 20, 1830; *Nelumbium luteum* 10 (566): [4], April 9, 1831; *Panax quinquefolium* 10 (514): [4], June 4, 1831; *Scutellaria laterifolia* 10 (520): [4], July 16, 1831; *Agaricus surrectus* 10 (527): [1], Sept. 3, 1831; *Chelone glabra* 10 (536): [4], Nov. 5, 1831; *Spigelia marilandica* 10 (541): [4], Dec. 10, 1831; *Lobelia inflata* 11 (549): [4], Feb. 4, 1832; *Pterospora andromeda* 11 (552): [4], Feb. 25, 1832; *Leontodon taraxacum* 11 (556): [4], March 24, 1832; *Symphytum officinale* 11 (560): [4], April 21, 1832; *Xanthoxylon fraxineum* 11 (563): [4], May 12, 1832; *Oxalis acetosella* 11 (566): [4], June 2, 1832; *Trillium latifolium* 12 (571): [4], July 7, 1832.

These previously overlooked items are merely repetitions of data that appeared under the same title, *The School of Flora*, in *The Casket*, Fitzpatrick nos. 476-604. Each entry consists of a single figure together with a detailed description and discussion of the species. *The Casket* and the *Saturday Evening Post* were edited and published by Mr. Atkinson, so it was perhaps but natural that these items appeared in each. In some cases it is apparent that the *Post* antedated *The Casket* publication. The figures are those of Rafinesque's *Medical Flora* (1828-1830).

——— *Success of the Pulmel*. *Sat. Eve. Post* 7 (339): [2], Jan. 25, 1828.

Signed "Medicus."

——— *First Select Case of Consumption Cured by Pulmel*. *Sat. Eve. Post* 7 (338): [3], Jan. 19; *Second Select Case* 7 (343): [2], Feb. 23; *Third Select Case* 7 (354): [2], May 10, 1828.

Signed "Medicus."

——— *Four Letters on American History*. By Prof. Rafinesque to J. H. McCulloh of Baltimore. *Sat. Eve. Post* 7 (358): [1], June 7; *Second Letter*, op. cit. (360): [1], June 22; *Third Letter*, op. cit. (364): [2], June 19; *Fourth Letter*, op. cit. (371): [1], Sept. 6, 1828.

Sets forth some of Rafinesque's views on the significance of the philology of certain Mexican and Yucatan languages.

¹⁹ "My dislike of every appearance of empirism, and my wish to avoid censure, induced me to conceal myself under the name Medicus. . . ." Rafinesque, C. S. *The Pulmist* 8. 1829.

- Rafinesque, C. S. Consumption Nr. 1. Sat. Eve. Post 7 (347): [2], March 22, 1828; No. 2, 7 (351): [2], April 19, 1828; No. 4, 7 (375): [2], Oct. 4, 1828.
Signed "Medicus."
- The Americans are not Jews. To the Rev. Ethan Smith, Pastor of Poultney in Vermont. Sat. Eve. Post 8 (424): [1], Sept. 12, 1828.
Signed C. S. R.
- Plugging Trees. Sat. Eve. Post 10 (462): [2], Oct. 8, 1829.
Signed C. S. R. Appertains to a proposed method of controlling certain pests.
- Account of the Largest Tree Near Philadelphia. Sat. Eve. Post 10 (503): [1], May 28, 1831.
Cupressus disticha in Bartram's garden, planted in 1742, signed C. S. R.
- From the Journal of a Naturalist. Sat. Eve. Post 10 (527): [1], 2 fig., Sept. 3, 1831.
The harvest mouse and its nest, and *Agaricus surrectus*, both illustrated. Republication of *Journal of a naturalist*, Casket 1831: 422-424. 2 fig. 1831.
Unsigned but certainly by Rafinesque.
- East Indian Cholera. Sat. Eve. Post 10 (528): [1-2], Sept. 10, 1831.
Signed "Medicus."
- On the Spasmodic Cholera. Sat. Eve. Post 10 (529): [2], Sept. 17, 1831.
Signed C. S. R.
- From the Medical Flora of the United States. Qualities and Properties of Grape Vines and Wines. Sat. Eve. Post 12 (582): [4], Sept. 22, 1832.
- Bemerkungen zur Encyclopaedia of Plants of Loudon, Lindley and Sowerby von C. S. Rafinesque, Professor der Botanik und Naturgeschichte etc. in Philadelphia. Januar 1831. (Aus Loudon's Gardener's Magazine, vol. VIII (April 1832), p. 245. *Linnaea* 8: Lit.-Ber. 66-75. 1833.
A German translation [by D. F. L. von Schlechtendal] of Fitzpatrick no. 605. Supplementary to Fitzpatrick no. 605, 938.
- Extrait d'une lettre de M. C. S. Rafinesque, professeur à Philadelphie, adressée à Mr. le Prof. De Candolle (Mai 1830), p. 214. *Linnaea* 8: Lit.-Ber. 79-86. 1833.
Republication of Rafinesque's original paper issued in *Seringe Bull. Bot.* 1: 214-221. 1830, the introductory matter translated into German. The Latin diagnoses reproduced. Supplementary to Fitzpatrick no. 556.
- Remarques botaniques sur quelques plantes de l'Amérique Septentrionale, dans les quatre premiers volumes du *Prodromus ou Synopsis plantarum* de de Candolle. *Act. Soc. Linn. Bordeaux* 6: 261-269. 1834.
This is the basis of my: *A Generally Overlooked Rafinesque Paper*. *Proc. Am. Philos. Soc.* 86: 72-90. 1942.
- Descriptions des genres fossiles *Ditaxopus*, *Trianisitis*, *Trioxites*, *Menepies*, et *Trianistes*. *Bull. Soc. Géol. France* 10: 378-381. 1839.
- Sur les fossiles de la vallée Sherman des montes Alleghany. *Bull. Soc. Géol. France* 10: 381-383. 1839.
- Neogenyton, or Indication of Sixty-Six New Genera of Plants of North America. 1-4. 1825 (1912).
No. 1 of a series of reprints of rare works on natural history under the auspices of the American Midland Naturalist. July, 1912. Facsimile reprint of Fitzpatrick no. 474.
- Monographie des coquilles bivalves et fluviatiles de la rivière Ohio. Remarques sur les rapports naturels des genres *Viscum*, *Samolus* et *Viburnum*. A Bruxelles. De l'imprimerie de Weissenbruch père Rue du Musée No. 1057 (1820). [Part of *Annals of Nature*] 17-60. 1820 (1912).
No. 2 of a series of American Midland Naturalist reprints, July, 1912. Supplementary to Fitzpatrick nos. 344, 345, 363, 934.
- Scadiography of 100 Genera of Umbelliferous Plants, Etc. 49-61. 1840 (1913).
No. 3 of the American Midland Naturalist series of reprints, July, 1913. Supplementary to Fitzpatrick no. 906.
- 5. Botany. The Natural Family of Carexides. 23-28. 1840 (1913). No. 4 of the American Midland Naturalist series of reprints, July, 1913. Supplementary to Fitzpatrick no. 906.
- Autikon Botanikon . . . 1-200. 1815-1840 [1942].
A facsimile lithoprint reproduction, 1942, Arnold Arboretum, Jamaica Plain, Mass. Supplementary to Fitzpatrick nos. 897-899.
- *Sylva Telluriana* . . . 1-184. 1838 [1943].
A facsimile lithoprint reproduction 1943, Arnold Arboretum, Jamaica Plain, Mass. Supplementary to Fitzpatrick no. 885.
- A Life of Travels (1836). Verbatim reprint. *Chron. Bot.* 8: 298-353, illus. 1944.
Foreword by E. D. Merrill, critical index with explanatory comments by F. W. Pennell. The illustrations consist of reproductions of three portraits of Rafinesque and two sketches of women by Rafinesque reproduced from H. B. Weiss *Rafinesque's Kentucky Friends*. Supplementary to Fitzpatrick no. 863.
- Medical Consultation on the Case of Daniel Vanslyke. By C. S. Rafinesque, Pulmist &c. Philadelphia, 10th Sept. 1830. *Bull. Hist. Medicine* 18: 424-437. 1945.
Rafinesque's original holographic report, with pertinent correspondence and introductory data prepared by Mabel Clare Weeks. The suggested treatment unsuccessful, pencil note on the original document "Died Dec. 4th 1831—After being flattered by this consultation to the amount of \$50.00."
- Atlantic Journal and Friend of Knowledge 1-212. 1832-1833 [1946].
A facsimile lithoprint reproduction, 1946, Arnold Arboretum, Jamaica Plain, Mass. Supplementary to Fitzpatrick nos. 864-868.
- *Flora Telluriana* . . . 1: 1-101. 1836 [1837]; 2: 1-112. 1836 [1837]; 3: 1-100. 1836 [1837]; 4: 1-135. 1836 [1838]. [1946].
A facsimile lithoprint reproduction, 1946, Arnold Arboretum, Jamaica Plain, Mass. Supplementary to Fitzpatrick nos. 869-873.
- New Flora of North America . . . 1: 1-100. 1836; 2: 1-96. 1836 [1837]; 3: 1-96. 1836 [1838]; 4: 1-112. 1836 [1838]. [1946].
A facsimile lithoprint reproduction, 1946, Arnold Arboretum, Jamaica Plain, Mass. Supplementary to Fitzpatrick nos. 864-868.
- Précis des découvertes somiologiques ou zoologiques et botaniques. 1-55. 1814 [1948].
A facsimile lithoprint reproduction, 1948, Peter Smith, New York, foreword by E. D. Merrill. Supplementary to Fitzpatrick no. 230.
- Western Minerva, or American Annals of Knowledge and Literature. [i-v]. vi. [7]. 8-88. 1821 [1949].
A facsimile lithoprint reproduction, 1949, Peter Smith, New York, foreword by E. D. Merrill.

ADDITIONS TO THE BIBLIOTHECA RAFINESQUIANA

Fitzpatrick's²⁰ basic list of 134 items is an excellent one. A perusal of it at once indicates what an enormously wide field of published data one must or should cover in search for items about Rafinesque—all the biological sciences, medicine, history, philology, anthropology, archeology, and numerous other subjects (see p. 44). In the present supplementary list 107 additional titles are included, about 20 of which appeared before Fitzpatrick's excellent work was issued in 1911, the remainder since that date. That nearly 90 papers regarding Rafinesque and his work have been published since 1911 is an indication of the recrudescence of interest in the career of the catholic-minded but utterly erratic Rafinesque and the significance of his work. Two of these items provide a great deal of *new* information about that strange character, these being Pennell's publication of 1942 and Dupre's booklet of 1945. Sadly in contrast with these are the contributions of Peattie in 1936, and of Jaffe in 1944. Admittedly most of the modern papers about Rafinesque are recapitulations of previously published items by Rafinesque himself,

²⁰ Op. cit. 223-239.

his contemporaries, or his immediate successors. Sometimes, however, one marvels at the grotesquely erroneous interpretations of this or that author.

If one elected to add the titles of all technical papers and independent volumes in descriptive biology of other authors in which Rafinesque genera and species are included, one would have to cover the descriptive biological literature of the entire world, and this would add some thousands of titles that would merely confuse the issue and serve no useful purpose. In listing items about Rafinesque's genera and species by such authors as Fernald, Stearn, and others, the basis of selection has been whether or not the paper was essentially based on Rafinesque entities.

Anonymous. Rafinesque. *Nachricht an Naturforscher aus Nordamerika. Flora* 8 (1): Beil. 1: 144. 1825.

Brief statement regarding Rafinesque's botanical garden project, projected exchanges, etc.

— The Lexington Herald. Body of Rafinesque, Famous Scientist, is Brought to Transylvania College, March 1, 1924. *Medical Life* 31: 155-158. 1924.

Apparently a reprint or a summary of a newspaper item.

— Constantine Rafinesque. *Missouri Bot. Gard. Bull.* 15: 164-171. 1927.

— Celebrated Conservationists and Naturalists in Our National Parks. Constantine Samuel Rafinesque. U. S. Dept. Interior, press release. 1-11. 1928.

Barkley, A. H. Constantine Samuel Rafinesque. *Ann. Med. Hist.* 10: 66-76. 2 *portr.* 1928.

— Pioneer Medical Men of Lexington. *Kentucky Med. Jour.* 29: 463-468. 1931.

Includes brief notes on Rafinesque, p. 465-466, with a portrait.

Barnhart, J. H. Brief Sketches of Some Collectors of Specimens in the Barton Herbarium. *Bartonia* 9: 35-42. 1926 (Rafinesque, p. 41).

Betts, E. M. The Correspondence Between Constantine Samuel Rafinesque and Thomas Jefferson. *Proc. Am. Philos. Soc.* 87: 368-380. 1944.

Reproductions of about ten letters from Rafinesque to Jefferson, written in 1804 and between September, 1819 and July, 1824, with some of Jefferson's responses. The letters of 1819-24 are chiefly in reference to Rafinesque's desire to secure appointment as Professor of Natural History at the University of Virginia.

Blake, S. F. The Identity of the Genus *Adventina* Raf. *Rhodora* 24: 34-36. 1922.

Reduced to *Galinsoqa* Cav.

Britten, J. An Overlooked Paper by Rafinesque. *Jour. Bot.* 38: 224-229. 1900.

Includes a republication of Rafinesque's *Remarks on the Encyclopaedia of Plants of Loudon, Lindley, and Sowerby*. Supplementary to Fitzpatrick no. 605, who uses the title "Art III Retrospective criticism" which was Loudon's title, Rafinesque's original appearing in Loudon's *Gardener's Magazine* 8: 244-248. 1832.

Brown, L. A. (Editor) Rafinesque Memorial Papers. October 31, 1940. *Transylv. College Bull.* 15 (7): 1-108. 1942.

The individual papers, as far as they appertain to Rafinesque, entered separately in this list.

Brown, R. H. [Review of] *A Life of Travels*, by C. S. Rafinesque, 1944 reprint. *Geogr. Rev.* 35: 337-338. 1945.

Camp, W. H. Studies in the Ericales: The Search for *Adnaria odorata* Raf., and *Arbutus obtusifolius* Raf. *Castanea* 6: 80-83. 1941.

An excellent example of working out accurate identities on the basis of "residues," i. e. what species flowering at a certain time in a certain locality agrees with an inadequate early description where types are not extant.

Chase, A. The Durand Herbarium. *Bartonia* 17: 40-45. 1936.

On p. 44 it is noted that Durand preserved none of the Rafinesque types of grasses.

Clay, W. M. Herpetology and Rafinesque. *Transylvania College Bull.* 15(7): 84-90. 1942.

Coulter, J. M. & Rose, J. N. Musineon of Rafinesque. *Bot. Gaz.* 20: 258-260. 1895.

Coville, F. V. The Technical Name of the Camas Plant. *Proc. Biol. Soc. Washington* 11: 61-65. 1897.

Cox, A. Constantine Samuel Rafinesque. *Bull. Gard. Club Am. IX.* 12: 12-16. 1945.

Compiled data from various published sources.

Dayton, W. A. [Review of] *A Life of Travels*. By C. S. Rafinesque, 1944 reprint. *Jour. Forest.* 43: 381-382. 1945.

Includes various incidental data regarding Rafinesque.

Dupre, H. Rafinesque in Lexington 1819-1826. i-xii. 1-99, frontisp., 1945.

A detailed consideration of Rafinesque's sojourn at Transylvania College, 1819-1826; bibliography. Includes much new information regarding Rafinesque.

Farwell, O. A. *Corallorrhiza maculata* Raf. *Rhodora* 25: 31-32. 1923.

— *Eukrania* and *Cynoxylon* not Genera of Rafinesque. *Rhodora* 34: 29-30. 1932.

— *Cornus*, a Reply. *Torreya* 42: 130. 1942.

Considers certain Rafinesque names; see Rickett, H. W.

Fassett, N. E. *Veronica connata* Rafinesque. *Jour. Washington Acad. Sci.* 37: 353-354. 1947.

Fernald, M. L. Some Genera and Species of Rafinesque. *Rhodora* 34: 21-28. *fig. 1-6.* 1932.

— Four of Rafinesque's Species of *Sisyrinchium*. *Rhodora* 46: 42-45. 1944.

— Two of Rafinesque's Species of *Tradescantia*. *Rhodora* 46: 310-311. 1944.

— Technical Studies on North American Plants. I. Some Species in Rafinesque's "Herbarium Rafinesquianum." *Rhodora* 48: 5-13. *pl. 993, 994.* 1946.

Includes various nomenclatural changes necessitated on the basis of priority of Rafinesque's descriptions, chiefly in the Orchidaceae.

Funkhouser, W. D. An Eccentric Egocentric. 1-23. 1940.

"Reprinted 1940. The hundredth anniversary of the death of Rafinesque."

— Rafinesque—Archeologist. *Transylv. College Bull.* 15 (7): 78-80. 1942.

Gleason, H. A. *Blephilia ciliata* (L.) Benth. *Rhodora* 50: 53-55. 1948.

A discussion of Rafinesque's proposed binomials in *Blephilia* concluding that Bentham, not Rafinesque, is the author of *B. ciliata*.

Haag, H. B. Rafinesque's Interests—a Century Later; Medicinal Plants. *Science* 11. 94: 403-406. 1941.

— Rafinesque's Interests—Medicinal Plants. *Transylv. College Bull.* 15 (7): 91-96. 1942.

Condensed from the preceding item.

Hagen, V. W. von. Rafinesque, the Unnatural Naturalist. The Life Story of One of the Strangest Personalities That Ever Passed Across the Scientific Stage in America. *Nat. Hist.* 56: 296-303, *illus.* 1947.

Hallowell, E. Case of Cancer of the Stomach and Liver. *Med. Exam. [Phila.]* 3: 597-599. 1840.

The case of Rafinesque, Dr. Hallowell's visits from Sept. 10, 1840 to Rafinesque's death; diagnosis, treatment prescribed, and detailed results of the autopsy performed. Rafinesque died at 9 P. M., Sept. 18, 1840.

Hance, A. M. Rafinesque, the Great Naturalist. A Paper Read Before the Bucks County Historical Society at Langhorne [Pennsylvania], June 4, 1914. 1-2. 1914.

Harrison, J. W. The Transylvania Botanic Garden. A Little Known American Enterprise of Great Historic, Scientific, and Educational Interest. "The Athens of the West"—Lexington, Kentucky. Home of the First Printing Press, Newspaper, Public Library, and University West of the Alleghenies. A Pioneer Naturalist of a Century Ago and the Botanic Garden he Sought to Found. *Jour. Am. Hist.* 7: 901-909. 1913.

Biologists might be inclined to smile at this remarkable title, for apparently it was editorial policy to give an epitome of each paper in the title; and here the editor carelessly left out the one really important item, the name Constantine Samuel Rafinesque. The projected garden never materialized, having failed immediately, so that it was never of "great historic, scientific, and educational interest."

Heck, E. L. W. Constantine Rafinesque. *Sci. Monthly* 25: 554-558. 1927. Reprint 1-5.

Henricus quatre [Leon Croizat]. Rafinesque: A Concrete Case. *Archiv. Bot.* 24: — 1948 (reprint 1-18).

Higinbotham, L. [A Review of] Rafinesque's *A Life of Travels*, 1944 reprint. *Am. Midl. Nat.* 37: 805-806. 1947.

- House, H. D. *Viburnum Rafinesquianum* Schultes. *Torreyia* 35: 126. 1935.
- Jaffe, B. Men of Science in America. The Role of Science in the Growth of Our Country. i-xi. 1-600, illus. 1944.
Chapter five, pages 104-129, is devoted to Rafinesque; compiled data, nothing new.
- Jordan, D. S. Concerning Rafinesque's *Précis des découvertes somiologiques*. *Proc. Acad. Nat. Sci. Philadelphia* 69: 276-278. 1917.
- The Bones of Rafinesque. *Science* II. 59: 553-554. 1924.
- Kuntze, O. Rafinesque (-Schmaltz), C. S. In his: *Revisio generum plantarum* 1: cxxxix-cxli. 1891.
Lists about 40 of Rafinesque's botanical titles and briefly discusses his work.
- Little, E. L., Jr. A Note on Rafinesque's *Florula Columbica*. *Proc. Biol. Soc. Washington* 56: 57-65. 1943.
Critical notes on the announced but never published paper, the original manuscript apparently no longer extant.
- Leonard, W. E. Some Early Philadelphia Botanists; Schweinitz, Nuttall, Rafinesque and Darlington. *Bull. Minnesota Acad. Nat. Sci.* 3: 29-37. 1889.
Rafinesque p. 31-35.
- Lloyd, J. U. & Lloyd, J. T. A Librarian's Story. *Jour. Am. Pharm. Assoc.* 20: 918-921. 1931.
Includes an account of the acquisition of a copy of Rafinesque's *Medical Flora*, and the reproduction of a letter from Rafinesque to Manesseh Cutler written at Palermo May 2, 1804.
- Lockwood, A. G. B. *Gardens of Colony and State*. i-xii. 1-444. illus. 1934.
On page 25 Rafinesque's *Transylvania University Botanic Garden* is briefly considered.
- Nieuwland, J. A. *Tithymalopsis* and *Dichrophyllum*, Synonyms. *Am. Midl. Nat.* 2: 298-300. 1912.
Tithymalopsis Klotzsch & Garcke (1859), replaced by *Agaloma* Raf. (1836), and *Dichrophyllum* Klotzsch & Garcke (1859) replaced by *Lepadena* Raf. (1836), with sixteen transfers of specific names.
- Norton, C. F. Manuscript Collection of Rafinesque in the Transylvania Library, *Transylv. College Bull.* 15 (7): 106-107. 1942.
Lists seventeen items.
- Publications of Rafinesque in the Transylvania Library. *Transylv. College Bull.* 15 (7): 97-105. 1942.
Lists about 150 titles.
- McVaugh, R. The Genus *Triodanis* Rafinesque, and Its Relationships to *Specularia* and *Campanula*. *Wrightia* 1: 13-52. 1945.
Rafinesque's generic name is accepted and eight species recognized.
- Merrill, E. D. Modern Facsimile Reproductions of Rare Technical Publications. *Science* II. 96: 180-181. 1942.
Rafinesque's *Autikon Botanikon*.
- A Generally Overlooked Rafinesque Paper. *Proc. Am. Philos. Soc.* 86: 72-90. 1942.
- Rafinesque Publications From the Standpoint of World Botany. *Proc. Am. Philos. Soc.* 87: 110-119. 1943.
- Foreword [to the 1944 reproduction of Rafinesque's "Life of Travels"]. *Chron. Bot.* 8: 292-297. 1944.
- Only One Botanist. *Jour. N. Y. Bot. Gard.* 46: 203-204. 1945.
A brief review of Jaffe, B. "Men of science in America," who, of all men, selected Rafinesque as the one botanist worthy of inclusion in his book which covers the period 1560 to date. His sketch of Rafinesque adds nothing to our knowledge of that prince of erratic naturalists.
- Nomenclatural Notes on Rafinesque's Published Papers 1804-1840. *Jour. Arnold Arb.* 29: 202-214. 1948.
Certain of Rafinesque's earlier specific names accepted, ten in all, and transferred to the currently accepted generic names. Includes a list of about 75 Rafinesque generic names, all of which are valid under the provisions of the International Code of Botanical Nomenclature under its priority rule. See p. 20.
- *Neolitsea* (Bentham) Merrill, nomen conservandum propositum. *Jour. Arnold Arb.* 29: 198-200. 1948.
Rejection of the earlier name *Bryantea* Raf. (1838) recommended because of the large number of binomials involved.
- Rafinesque, With Notes on His Publications in the Harvard Libraries. *Harvard Libr. Bull.* 2: 5-21. 1948.
- Foreword [to the 1948 reprint of Rafinesque *Précis des découvertes somiologiques ou zoologiques et botaniques*]. [1-2]. Peter Smith. New York. 1948.
- & Sandwith, N. Y. On the Identity of the Genera *Cupulissa* Raf. and *Platolaria* Raf. *Jour. Arnold Arb.* 28: 430-434. 1947.
Both genera reduced to *Anemopaegma* Mart. (1845), and the latter recommended for conservation against Rafinesque's earlier names because of the large number of binomials involved.
- Merriman, D. [Review of] A Life of Travels; by C. S. Rafinesque, 1944 reprint. *Am. Jour. Sci.* 243: 109-110. 1945.
- Packard, F. R. History of Medicine in the United States 1: i-xxv. 1-656, fig. 1-67; 2: i-xi. 1-1323, fig. 68-103. 1931.
Brief notes on Rafinesque 1: 473, 2: 1227, 1229, 1231 (portr.).
- Peattie, D. C. Green Laurels. The Lives and Achievements of the Great Naturalists. i-xxiii. 1-368, illus. 1936.
Rafinesque, xxi, 166, 245, 261. The significance of his work grossly exaggerated; see p. 50.
- Pennell, F. W. "Unrecorded" Genera of Rafinesque—1. *Autikon Botanikon* (1840). *Bull. Torrey Bot. Club* 48: 89-96. 1921.
Some Overlooked *Scrophulariaceae* of Rafinesque. *Torreyia* 22: 77-84. 1922.
- Elias Durand and His Association With the Academy of Natural Sciences of Philadelphia. *Bartonia* 17: 33-39. 1936.
- New Light on Rafinesque. *Chron. Bot.* 6: 125-126. 1940.
- Botanical Collectors of the Philadelphia Local Area. *Bartonia* 21: 38-57. 1942.
Includes important data regarding Rafinesque's herbarium, pp. 50-55.
- The Life and Work of Rafinesque. *Transylv. College Bull.* 15 (7): 10-70. 1942.
One of the few modern papers that actually includes a great many new data regarding the life of that errant naturalist.
- Critical Index with Explanatory Comments [to the 1944 reproduction of Rafinesque's "Life of Travels"]. *Chron. Bot.* 8: 354-360. 1944.
- How Durand Acquired Rafinesque's Herbarium. *Bartonia* 23: 43-46. 1945.
At a cost of \$45.00 to cover storage charges following Rafinesque's death, see p. 37.
- Perkins, S. E., III. Letters by Rafinesque to Dr. Short in the Filson Club Archives. *Filson Club Hist. Quart.* 12: 200-239. 1938.
- Pilsbury, H. A. Rafinesque's Genera of Fresh Water Snails. *Nautilus* 30: 109-114. 1917.
- Rehder, A. Note on *Basilima* and *Schizonotus* of Rafinesque. *Bot. Gaz.* 35: 56-58. 1901.
- Rhoads, S. N. Rafinesque as an Ornithologist. *Cassinia* 15: 1-12. portr. 1911 [1912].
- Additions to the Known Ornithological Writings of C. S. Rafinesque. *Auk* 29: 191-198. 1912.
Includes reproductions of two papers by Rafinesque originally published in the *Kentucky Gazette* in 1822 as *The Cosmonist*, nos. 3 and 4, with notes; *The Cosmonist* no. 3 additional to Fitzpatrick no. 437, no. 4 supplementary to Fitzpatrick no. 438.
- Ornithological Notes of Rafinesque in the Western Review and Miscellaneous Magazine, Lexington, Ky. *Auk* 29: 401. 1912.
Brief abstracts of Rafinesque's notes on birds and on meteorological subjects.
- Rickett, H. W. The Names of *Cornus*. *Torreyia* 42: 11-14. 1942.
Considers certain Rafinesque names. See Farwell, O. A., *supra*.
- *Cornus* Again. *Torreyia* 42: 131. 1942.
- Rodgers, A. D., III. John Torrey, a Story of North American Botany. [i-iv]. 1-352. 1 portr., 1 map. 1942.
Data on Rafinesque, pp. 16, 22, 24-25, 29-34, 36, 38, 68, 89, 99, 107-108, 148, 229.
- Russell, P. A. A New Rafinesque Letter. *Jour. Elisha Mitchell Sci. Soc.* 59: 89-90. 1943.
Rafinesque's application for a position at the University of North Carolina, dated April 22, 1826, outlining his qualifications.

Santesson, R. The Phalloid Genera *Colonnaria* Rafinesque, *Laternea* Turpin, and *Linderia* Cunningham. *Svensk Bot. Tijdskr.* 37: 287-303. fig. 1-6. 1943.

The name *Colonnaria* Raf. (1808) is retained and *Linderia* Cunningham. (1931) is rejected for this genus.

Smallwood, W. M. Natural History and the American Mind. i-xiii [i-iv]. 1-445. 10 pl. 1941.

Contains various references to Rafinesque with an evaluation of his work, p. 119, 266, 275, 339-343.

Smyth, S. G. Rafinesque. The Errant Naturalist. Hist. Soc. Montgomery County [Pa.]. Historical Sketches 6: 300-341. 1 pl. 1929.

Sprengel, K. *Florula Ludoviciana*, 1817. *Jahrb. Gewächsk.* 1(2): 165-166. 1819.

A review of Rafinesque's *Florula Ludoviciana*.

Constant. Sam. Rafinesque's neueste Entdeckungen. Spreng. Neue Entdeck. 1: 142-146. 1820.

A summary of Rafinesque's papers that appeared in vol. 1, no. 2, Am. Jour. Sci. and vol. 4, no. 1 and 3, Am. Monthly Mag. Crit. Rev., his descriptions of new plant species reproduced.

Silliman's American Journal, Vol. 1, n. 3, 4. Spreng. Neue Entdeck. 2: 206-208. 1821.

Includes summaries of Rafinesque's papers on *Flörkea*, *Cylactis*, *Nemopanthus*, and *Myosurus*.

Stearn, W. T. *Ipheion uniflorum* (syns. *Triteleia*, *Milla*, *Brodiaea*, and *Beauverdia uniflora*). *Gard. Chron.* III. 114: 60-61. fig. 31-32. 1943.

Ipheion Raf. (1837) accepted, the new genus *Beauverdia* Herter having been proposed in 1941. The species was placed by earlier authors in *Triteleia*, *Milla*, *Brodiaea*, *Leucocoryne*, and *Hookera*, and finally made the type of a new genus: *Beauverdia* Herter (1941) = *Ipheion* Raf. (1837).

Steudel, E. G. Ueber C. F. [sic!] Rafinesque in Philadelphia literarische Arbeiten und Tausch-Anerbietungen. *Flora* 3 (1). Beil. 2: 33-42. 1820.

Strobl, G. *Flora des Etna*. *Oester. Bot. Zeitschr.* 30: 363-371. 1880.

On p. 365 is a brief summary of Rafinesque's work on the Etna flora. Strobl states that he saw Rafinesque specimens in Gussone's herbarium at the Naples Botanical Museum.

Taylor, R. L. [Review of] A Life of Travels, by C. S. Rafinesque, 1944 reprint. *William and Mary Quart.* III. 2: 213-221. 1945.

An excellent summary of Rafinesque's book, with important observations on the significance of Rafinesque's contributions, with numerous footnotes and references.

Tidestrom, I. Notes on *Peltandra*, Rafinesque. *Rhodora* 12: 47-50 pl. 83. 1910.

Tornabene, F. *Quadro storico della botanica in Sicilia che serve di prolusione all' anno scolastico 1846 e 1847 nella Regia Università degli studi in Catania*. 1-70. 1847.

Includes a brief summary of Rafinesque's published work on the flora of Sicily, pp. 50-51, with data regarding the proposed but never consummated publication of Cupani's plates of the *Panphyton Siculum* (Pritzel no. 1995); see Fitzpatrick no. 23.

Townsend, A. C. Bibliographical Note on C. S. Rafinesque. *Jour. Soc. Bibl. Nat. Hist.* 1: 471-476. 1943.

Lists the independently published Rafinesque works available in the libraries of the British Museum and the British Museum (Natural History), with a list of *desiderata* compiled from Fitzpatrick's Rafinesque bibliography.

Walker, B. The Rafinesque-Poulson Unios. *Nautilus* 30: 43-47. 1916.

Weeks, M. C. Medical Consultation on the Case of Daniel Vanslyke. By C. S. Rafinesque, Pulmist &c. Philadelphia, 10th Sept. 1830. *Bull. Hist. Medicine* 18: 424-437. 1945.

Introductory matter by Mabel Clare Weeks, body of the text a reproduction of Rafinesque's holographic report on this case; see p. 39.

Weatherby, C. A. Rafinesque Types in the Group of *Acalypha virginica*. *Rhodora* 42: 96. 1940.

Weer, P. Provenience of the *Walam Olum*. *Proc. Indiana Acad. Sci.* 51: 55-59. 1942.

Concerns Rafinesque's association with "Dr. Ward of Indiana" from whom he says he secured the document on which his translation of the *Walam Olum* was based.

Weiss, H. B. Rafinesque's Kentucky Friends. 1-70. 25 pl. 1936.

The illustrations are reproductions of Rafinesque's sketches of various individuals he knew, chiefly residents of Kentucky. Privately printed. Highland Park, N. J.

— Rafinesque's Pulmel. *Jour. N. Y. Entomol. Soc.* 55: 294. 1947.

A brief note.

Welden, L. von. Rafinesque Entdeckung neuer Gewächse im Schwimmen. *Flora* 5 (2): 719. 1822.

In the text this appears as "Curiosa"; the above title appears in the table of contents, p. 86, Sechste Beilage. Reproduced p. 53.

Whaler, J. Green River, a Poem for Rafinesque. 1-153. 1931. New York.

Wheeler, L. C. History and Orthography of the Celastraceous Genus "Pachystima" Rafinesque. *Am. Midl. Nat.* 29: 792-795. 1943.

Accepts *Paristima* Raf.

— The Genera of the Living Euphorbieae. *Am. Midl. Nat.* 30: 456-503. 1943.

Includes reductions of Rafinesque's proposed genera in this group, with critical notes.

Wood, R. D. On Rafinesque's Names for the Characeae. *Bull. Torr. Bot. Club* 75: 282-285. 1948.

Zabel, H. Ueber Rafinesquesche Pflanzennamen. *Mitt. Deutsch. Dendrol. Ges.* 1899: 74-77. 1899.

A critique of *Pseva* Raf., *Jorxylon* Raf., and Rafinesque's species of *Rosa*.

CERTAIN STATISTICS

I note in connection with this study that there are about 14,400 references in Rafinesque's own publications to genera, subgenera or sections, species and varieties where the names used originated with him. In addition there are many thousands of entries of names proposed by other authors that Rafinesque recognized and accepted; but the latter are beyond the scope of this paper. The chief objective here has been to list the overlooked Rafinesque names, the complete index to both listed and unlisted ones being an outgrowth of this endeavor.

Rafinesque's new generic names total about 2700, and of these 740 still remain unlisted in our standard indices. He also originated and published about 335 new subgeneric and sectional names, very few of which have even been noticed by his successors, although occasionally one has been adopted in the category to which Rafinesque assigned it. The total number of new Rafinesque binomials is about 6700, an extraordinarily large number if we may judge by the totals of a Linnaeus, a Hooker, a De Candolle, a Kunth, or an Engler. Of these approximately 2560 remain unlisted. The total number of unlisted Rafinesque new generic names and new binomials a century or more after they were published is thus about 3300; and as the majority of these appertain to North American botany, I insist that it is a reflection on the bibliographic work of North American taxonomists that they have remained unlisted for so long.

In the last category, varieties, Rafinesque proposed about 900 as new, but a very high percentage of these are strictly *nomina nuda* and as such have no standing; very few of those that were actually described were ever recognized by Rafinesque's successors.

In addition to the above there are about 330 corrections to be made in already listed Rafinesque names,

these occasionally being due to errors in transcription but more often merely because earlier places of actual publication appear.

GENERA

It was in the category of proposing new genera of plants that Rafinesque figuratively outdid himself; and it was in this field that he not only antagonized all of his contemporaries in Europe and in America, but prejudiced future generations of botanists against him. As a matter of fact he originated more new generic names for plants than any other botanist in the whole history of plant science, and we cannot blind ourselves to the fact that among those authors who proposed many new names, the percentage of acceptance of Rafinesque names by his contemporaries and successors is the very lowest. His nearest competitor in publishing was Linnaeus, with about 1440 generic names, most of which were adopted from the works of his predecessors issued previous to the time that Linnaeus evolved the binomial system of nomenclature in 1753. Rafinesque, including variant spellings, originated about 2700 new generic names. If one be interested in contrasts one will immediately recognize the fact that while nearly all of the generic names used by Linnaeus are still universally accepted, the universally accepted Rafinesque names approximate only about 30, an infinitesimally small proportion; and even if we consider all of the Rafinesque names that would be valid on the basis of strict priority, including also those Rafinesque segregates that within the present century have been reinstated largely by the New York school (Britton, Rydberg, Small, and others), the number would be increased by about 75. The total number, all categories, included in the tabulation, p. 20, involving the generic names for the cellular cryptogams, which have received very little consideration, is only about 290, only slightly in excess of one percent. It is no wonder that among his contemporaries, Amos Eaton, *Manual ed.* 3, 414. 1822, protested against the very numerous proposed changes (not that he accepted many Rafinesque names), for undoubtedly the passage quoted below was directed against Rafinesque, and to a lesser degree against Nuttall and others:

"The present rage for cutting up genera has gained such an ascendancy, that I am compelled to yield to it, though with pain and regret. Every *artificial character* is seized with greediness (sic!) and applied with great ingenuity to mangling the Linnean system of genera. I consider it the ephemeral reign of innovators, which our successors will remember but to despise. And most of these new names which are founded upon artificial characters will soon sleep with their authors."

Rafinesque at various times stated his own principles, and we must confess that he rather consistently followed his own ideas in the subdivisions of large genera and in recognizing an inordinate number of new genera, subgenera, species, and varieties of plants; he was at least consistent. Following the last exposition of his ideas, which are grouped under eight generalizations, *Flora Telluriana* 1: 14-16. 1836 [1837] he says:

"Such exposition of my principles, and explanation of motives were perhaps needful, when I am going to increase the generic groups, perhaps beyond any thing ever done of the kind. Linnaeus had only 1444 genera in his last edition towards 1778; Persoon in 1807 had already 2300 phanogamous genera. Jussieu in 1789 had nearly 2000; but Necker in 1790 only 1842. The 48 Cryptogamic Genera of Linnaeus have swollen to 400. Every year and every writer adds to the number. Ever since 1815 I had ascertained and classified nearly 3000, whereof 500 were my own. It is this labor, indicated in my analysis of Nature, that I now propose to enlarge, rectify and publish: whereby as many as Linnaeus ever had will be added or revised, and about 1000 will be totally new, even now, as late as 1836, or not yet generally adopted.

"Altho' this attempt may astonish or perplex some timid Botanists, my labors will be duly appreciated ere long, and my increasing efforts to improve the science meet with a kind reception from the new improving school. The axiom that a multiplication of names enlarges our ideas, holds true in all cases and sciences, since they are based on facts or mental entities. Some Linneists have vainly tried to throw discredit on generic reform, and called us *Genera-mongers*. We may in return call them *Genera-Shufflers*, who want to squeeze plants into improper genera, and delay improvements by opposing the corrections of botanical blunders. It is to them that we owe the superfluity of synonyms: they often shuffle plants into 3 or 4 Genera, as Linnaeus did for *Heliopsis*, until it must at last form a Genus of itself. It is a fact that almost all plants of doubtful Genera, are types of peculiar ones; the chances of it increase, as they are shifted."

There is more than a grain of truth in this last statement, as the case of *Beauverdia* Herter indicates. This was described by Herter as a new genus in 1941 in ignorance of the fact that his type-species had been selected by Rafinesque 104 years earlier as the type of the latter's new genus *Ipheion*. Thus *Beauverdia uniflora* (Grah.) Herter (1941) = *Ipheion uniflorum* (Grah.) Raf. (1837). The species had been placed by various authors in *Triteleia*, *Milla*, *Brodiaea*, *Leucocoryne*, and *Hookera*; see Stearn, *Gard. Chron.* III. 114: 60. 1943. Clearly in a case like this, if one wishes to retain the entity as of generic rank *Ipheion* Raf. (1837) should be accepted as preferable to *Beauverdia* Herter (1941).

Following the establishment of the Linnean system of binomial nomenclature in 1753 the tendency of his successors for much of the remainder of the century was to interpret his genera on a broad basis and greatly to expand the limits of many which he established. One judges that the average botanist of the time tried to force his new species into the Linnean concepts of generic limits, and thus in many cases they were expanded beyond all reason; and this Rafinesque clearly appreciated. Gradually it was realized that the number of distinct plant genera was very much greater than Linnaeus had thought. Particularly during the first few decades of the nineteenth century hundreds of new genera were proposed and described, especially by European botanists. This was a time when great collections of botanical material were being received in Europe from all parts of the world, and this period of expanding the total number of genera corresponded with Rafinesque's publishing activities. It is of some interest to note that in approximately 200 cases, where Rafi-

nesque proposed new generic names, other botanists had anticipated him by from a fraction of a year to ten years, and that their names have been accepted as valid by all botanists. The trouble here was that Rafinesque was not sufficiently informed regarding the generic proposals of his contemporaries, particularly those working in Europe. If, in these cases, Rafinesque's proposals had been published a few years earlier, then the number of his generic names having priority would be very greatly increased. Viewed in this light, while one may still criticize Rafinesque on his unbridled tendency to name and describe new genera, one can but feel that he was, in general, justified to a very considerable degree. At any rate, Eaton had no valid grounds for criticizing the botanists of his time who were "mangling the Linnaean system of genera."

SUBDIVISIONS OF LARGE GENERA

It does not seem necessary or desirable to list all of the genera that Rafinesque subdivided, but here are some illustrative cases. From *Acer* Linn., Rafinesque segregated, named, and defined seven groups; from *Allium* Linn., 16; from *Aristolochia* Linn., 20; from *Aster* Linn., 18; from *Bignonia* Linn., 16; from *Carex* Linn., 30; from *Cassia* Linn., 20; from *Cleome* Linn., 15; from *Commelina* Linn., 10; from *Convolvulus* Linn. and *Ipomoea* Linn., 80; from *Cordia* Linn., 13; from *Epidendrum* Linn., 15; from *Euphorbia* Linn., 38; from *Ficus* Linn., 18; from *Gentiana* Linn., 20; from *Ilex* Linn., 12; from *Justicia* Linn., 35; from *Melastoma* Linn., 23; from *Piper* Linn., 9; from *Passiflora* Linn., 15; from *Polygonum* Linn., 20; from *Quercus* Linn., 14; from *Salix* Linn., 26; from *Salvia* Linn., 25; from *Saxifraga* Linn., 12; from *Solidago* Linn., 14; from *Tradescantia* Linn., 11; from *Utricularia* Linn., 18; and from *Vitis* Linn. (including *Cissus* Linn.), 14.

It is no wonder that individuals like Britton, Schlechter, and others, in subdividing certain large and polymorphous or collective genera, found Rafinesque's work a fertile field for names that they needed, for he had already originated and published many of them; and it is no wonder that others who have similarly segregated smaller genera from large ones, and who did not critically consider the possibilities offered by Rafinesque's work, erred in proposing totally unnecessary new generic names which now fall before those of Rafinesque legitimately published a century earlier. See p. 25.

One cannot, in some cases, escape the conviction that some individuals refuse to follow the finer generic segregates of certain authors, perhaps largely because of the fact that in numerous cases the proponents of this policy have, from the standpoint of botanical nomenclature, correctly reinstated Rafinesque names that had long been buried in the limbo of synonymy. Thus it is that because of Rafinesque's insistence on continuing to publish, in spite of the criticisms of his associates, he is still penalized, and doubtless always will be, by that intangible but never-the-less effective taboo that

is placed on erratic work in natural history. It is not flattering to any systematist when one notes that a century or more after an author's death less than 300 of his 2700 published generic names have been recognized by any author as valid for this or that group. Of these occasionally or generally accepted names only about 30 are universally adopted by all botanists. About 90 have been eliminated by official action in favor of later names proposed by other authors. In about 70 additional cases it is clear that the Rafinesque names have priority, but they still remain to be accepted or officially rejected.

RAFINESQUE GENERIC NAMES, VALID ON THE BASIS OF STRICT PRIORITY IN DATES OF PUBLICATION

In the following tabulation accepted names in the approved lists of *nomina generica conservanda* are marked with an asterisk (*) and appear in this list in black face type. Universally accepted Rafinesque generic names are marked with an exclamation point (!). In addition to these two categories the valid Rafinesque names, under the present rules of nomenclature, are marked with a dagger (†). Names marked with the sign § indicate their having been reinstated either by a single or by several recent botanists chiefly within the present century. In general, but not always, the latter names are those adopted by that school of botanists who believe in basing genera on minor characters, the "splitters" as opposed to the "lumpers"; the former can scarcely be called the progressives, but the latter are definitely the conservatives. The sign # indicates certain groups that were originally characterized by Rafinesque as subgenera, for which later authors have proposed and published other names as representing genera; had Rafinesque's propositions been realized or appreciated his names could have been accepted as of generic rank, thus obviating the selection of entirely new names in several cases.

Eliminating the 90 Rafinesque names that have priority but which have been officially rejected in favor of later and more generally used ones of other authors there still remain about 70 cases where, on the basis of the present international rules of nomenclature, Rafinesque's names could or should be accepted in preference to those proposed by later authors and now in current use. It is suspected, however, that in the course of time many of these Rafinesque earlier names will be placed in the rejected list to avoid further changes in nomenclature. This procedure is left to the specialists, either those who are prosecuting general monographic work, or who are, on the basis of wide experience, thoroughly familiar with the flora of this or that area.

For an explanation of the meanings of the special marks preceding the names in this list see above. The indicated reductions of the names for the cellular cryptogams may be considered more as suggestions than as thoroughly established. Mycologists and algologists

have not, as a rule, made critical studies of Rafinesque's proposals in this group.

ALGAE:

- Acinaria* Raf., 1819, non Donati, 1753=? *Nitella* Agardh, 1824.
Amasperma Raf., 1814=? *Ceramium* Agardh, 1817.
 †*Arthrodia* Raf., 1814=*Roya* W. & G. West, 1896=*Closterium* Nitzsch, 1817, *sensu lat.*
Colopherrum Raf., 1814=*Ectocarpus* Lyngb., 1819.
 †*Dictilema* Raf., 1814=*Microdictyon* Decne., 1839.
Episperma Raf., 1814=*Ceramium* Agardh, 1817.
 †*Liacina* Raf., 1825=*Tolypella* R. Br., 1849.
Opospermum Raf., 1814=*Elachista* Duby, 1832.
 †*Phoracis* Raf., 1810=*Grateloupia* Agardh, 1822.

FUNGI:

- †*Acinophora* Raf., 1806; 1814=*Arachnion* Schwein., 1822.
Aedycia Raf., 1808=? *Mutinus* Fries, 1849.
 †*Colonnaria* Raf., 1806 (*Linderia* G. H. Cunningh., 1931); see Santesson, *Svensk Bot. Tijdskr.* 37: 287-303. 1943.
 †*Gemmularia* Raf., 1819=*Pachyma* Fries, 1823.
 †*Hydromycus* Raf., 1808=*Dacryomyces* Nees, 1821.
 †*Hypolepia* Raf., 1808=*Dacryomyces* Nees, 1821.
 †*Odontium* Raf., 1817=*Odontia* (Pers.) P. Henn., 1897.

PTERIDOPHYTA:

- ! *Pteritis* Raf., 1818 (*Struthiopteris* Willd., 1809, non Weis., 1770; *Metteuccia* Tenore, 1866; *Pterinoides* O. Kuntze, 1891).

TAXACEAE:

- Tumion* Raf., 1840=*Torreya* Arn., 1838, non Raf., 1818.

ALISMATACEAE:

- †*Luronium* Raf., 1840=*Elisma* Buchen., 1869.

HYDROCHARITACEAE:

- †*Philotria* Raf., 1818 (*Udora* Nutt., 1818).

GRAMINEAE:

- §*Amphicarpon* Raf., 1818=*Amphicarpon* Kunth, 1829.
Bulbilis Raf., 1819=*Buchloë* Engelm., 1859.
Diarina Raf., 1808=*Diarrhena* Beauv., 1812.
 !*Distichlis* Raf., 1819.
 §*Phanopyrum* Raf., 1830, ut sect. *Panicum* Linn.=*Phanopyrum* (Raf.) Nash=*Panicum* Linn.
 †*Ryttilix* Raf., 1830=*Hackelochloa* O. Kuntze, 1891.
 !*Sitanion* Raf., 1819.
 §*Steinchisma* Raf., 1830=*Panicum* Linn.

CYPERACEAE:

- Stenophyllus* Raf., 1825=*Bulbostylis* Kunth, 1837.

ARACEAE:

- Megotigea* Raf., 1837=*Helicodicerus* Schott, 1853.
 !*Peltandra* Raf., 1817 (*Leontia* Cooper, 1826; *Rensselaeria* Beck, 1833).
 †*Pleuropsa* Raf., 1838=*Montrichardia* Crueg., 1854.
Spathyema Raf., 1808=*Symplocarpus* Salisb., 1818.

BROMELIACEAE:

- §*Dendropogon* Raf., 1825=*Tillandsia* Linn.
Hexalepis Raf., 1838=*Vriesea* Lindl., 1843.

COMMELINACEAE:²¹

- †*Dilasia* Raf., 1838 (*Murdannia* Royle, 1839; *Dichospermum* Wight, 1853; *Prionostachys* Hassk., 1866; *Baulia* A. Chev., 1912; *Phaeneilema* Brückn., 1926).
Heminema Raf., 1837=*Tripogandra* Raf., 1837.
 §*Phyodina* Raf., 1837 (*Cuthbertia* Small, 1903; *Tradescantella* Small, 1903).
Pogomesia Raf., 1837=*Tinantia* Scheidw., 1839.
 †*Siderasis* Raf., 1837=*Pyrrheima* Hassk., 1869.
Streptylis Raf., 1838=§*Dilasia* Raf., 1838.
 †*Tripogandra* Raf., 1837 (*Heminema* Raf., 1837; *Descantaria* Schlecht., 1853; *Disgrega* Hassk., 1866).

PONTEDERIACEAE:

- Piaropus* Raf., 1837=*Eichhornia* Kunth, 1843.

LILIACEAE:

- Amblostima* Raf., 1837=*Schoenolirium* Durand, 1855.
Anepsa Raf., 1837=*Stenanthium* (A. Gray) Kunth, 1843 (*Veratrum* Linn., subgen. *Stenanthium* A. Gray, 1837).
 †*Aphoma* Raf., 1837=*Iphigenia* Kunth, 1843.
Bulbedulis Raf., 1837=*Camassia* Lindl., 1832.
Chrosperma Raf., 1825 (*Crosperma* Raf., 1838)=*Amianthium* A. Gray, 1848.
 !*Clintonia* Raf., 1817.
Cyanotris Raf., 1818=*Camassia* Lindl., 1832.
Geboscon Raf., 1824, 1833=*Nothoscordum* Kunth, 1843.
 †*Hexonix* Raf., 1837=*Heloniopsis* A. Gray, 1859.
 †*Ipheion* Raf., 1837=*Beauverdia* Herter, 1941.²²
 †*Kozola* Raf., 1837=*Heloniopsis* A. Gray, 1859.
Laothoe Raf., 1837=*Chlorogalum* Kunth, 1843.
 §*Nemexia* Raf., 1825; *Nemexis* Raf., 1840=*Smilax* Linn.
Oxytria Raf., 1837=*Schoenolirium* Durand, 1855.
Pubilaria Raf., 1837=*Simethis* Kunth, 1843.
Quamasia Raf., 1818=*Camassia* Lindl., 1832.
 †*Sabadilla* Raf., 1837=*Sabadilla* Brandt & Ratzeb., 1837=*Schoenocaulon* A. Gray, 1837.²³
 †*Siraitos* Raf., 1838=*Chionographis* Maxim., 1867.

IRIDACEAE:

- §*Olsynium* Raf., 1836=*Sisyrinchium* Linn.
 †*Phaiophleps* Raf., 1838=*Symphyostemon* Miers, 1841.

ORCHIDACEAE:

- †*Adipe* Raf., 1837=*Bifrenaria* Lindl., 1843.
 §*Blephariglotis* [*Blepharioglotis*] Raf., 1837=*Habenaria* Willd., 1805.
 †*Caularthron* Raf., 1837=*Diacrium* Benth., 1881.
Cordula Raf., 1838=*Paphiopedilum* Pfitz., 1886.
 §*Criosanthes* Raf., 1818=*Cypripedium* Linn.
 †*Deppia* Raf., 1837=*Lycaste* Lindl., 1843.
 †*Dilomilis* Raf., 1838=*Octadesmia* Benth., 1881.
Diphryllum Raf., 1808=*Listera* R. Br., 1813.
 §*Dothilophis* Raf., 1838=*Epidendrum* Linn.
Galearis Raf., 1833=§*Galeorchis* Rydb., 1901=*Cypripedium* Linn.
Gynizodon Raf., 1838 (not 1836)=*Miltonia* Lindl., 1837 (conservation was not necessary).
 !*Hexalectris* Raf., 1835.
 !*Isotria* Raf., 1806.
 †*Jimensia* Raf., 1838=*Bletilla* Reichb. f., 1851-53.
Menephora Raf., 1838=*Cordula* Raf., 1838=*Paphiopedilum* Pfitz., 1886.
 §*Nyctosma* Raf., 1837=*Epidendrum* Linn.
Pecteilis Raf., 1837=§*Hemihabenaria* Finet, 1901=*Habenaria* Willd., 1805.
Stimegas Raf., 1838=*Cordula* Raf., 1838=*Paphiopedilum* Pfitz., 1886.
Tulotis Raf., 1833=§*Perularia* Lindl., 1835=*Habenaria* Willd., 1805.

JUGLANDACEAE:

- Hicorius* Raf., 1817=*Carya* Nutt., 1818.
Scoria Raf., 1808=*Carya* Nutt., 1818.

²² See Stearn, W. T. *Ipheion uniflorum* (syns. *Triteleia*, *Milla*, *Brodiaea*, and *Beauverdia* uniflora). *Gard, Chron.* III. 114: 60-61. fig. 31-32. 1943. See also *Stethoma* Raf. (1838) which replaces *Psacadocalymma* Bremek. (1948), in the *Acanthaceae*.

²³ Here are three generic names published independently by three different authors in the same year, for the same species. It is not improbable that the actual date of publication of the three works could be determined with sufficiently reasonable accuracy to determine which of the three has actual priority (Rafinesque's work appeared not later than March, 1837). Here it would seem to be logical to conserve the widely used name *Schoenocaulon* A. Gray, for which, incidentally, in 1838 (not in 1836 as recorded) Rafinesque actually published the new generic name *Skoinolon* Raf. It may be noted that Rafinesque published *Sabadilla officinalis* in 1837, and that Standley published the same transfer in 1927. The basis of both was *Veratrum sabadilla* Retz.

²¹ For the latest consideration of generic limits and accepted names in this family see Pichon, M. *Sur les Commelinacées*. *Not. Syst.* 12: 217-242. 1946.

FAGACEAE: ²⁴

- †*Arcaula* Raf. 1838=*Pasania* Oerst., 1866.
 †*Balanaulax* Raf., 1838=*Pasania* Oerst., 1866.
 †*Balanoplis* Raf., 1838=*Castanopsis* (D. Don) Spach, 1842
 (*Quercus* Linn., sect. *Castanopsis* D. Don, 1825).
 †*Perytis* Raf., 1838=*Cyclobalanopsis* Oerst., 1866.

MORACEAE: ²⁵

- Ioxylon* Raf., 1817 (*Toxylon* Raf., 1818; *Joxylon* Raf., 1819; *Xoxylon* Raf., 1819)=*Maclura* Nutt., 1818.

URTICACEAE:

- Adicea* Raf., 1815 (*Adesia* Raf., 1822; *Adike* Raf., 1836)=
 **Pilea* Lindl., 1821.

LORANTHACEAE:

- †*Glutago* Comm. ex Poir., 1821, et sensu Raf., 1838=*Oryc-
 tanthus* Eichl., 1868.
 †*Hemitria* Raf., 1820=*Phthirusa* Mart., 1830.
 †*Steirotis* Raf., 1820=*Struthanthus* Mart., 1830.

SANTALACEAE:

- §*Nestronia* Raf., 1838=§*Darbya* A. Gray, 1846=*Buckleya*
 Torr., 1843, sensu lat.

ARISTOLOCHIACEAE:

- §*Hexastylis* Raf., 1825=*Asarum* Linn.
 §*Isotrema* Raf., 1817=*Aristolochia* Linn.

POLYGONACEAE:

- Calacinum* Raf., 1837=*Muehlenbeckia* Meissn., 1840.
Karkinetron Raf., 1837=*Muehlenbeckia* Meissn., 1840.
Phyllepidium Raf., 1808=§*Delopyrum* Small, 1913=*Poly-
 gonella* Michx., 1803.
 §*Tracaulon* Raf., 1837=*Polygonum* Linn.

²⁴ Currently the tendency is to subdivide the large collective genera such as *Quercus* Linn., and *Castanopsis* (D. Don) Spach. In addition to *Castanopsis* Spach, *Cyclobalanopsis* Oerst., and *Pasania* Oerst., which are antedated by validly published generic names proposed by Rafinesque, various sectional or subgeneric names proposed by the latter might replace more recently published ones of other authors for the same groups, such as *Limodris* Raf., 1838, and *Phellodrys* Raf., 1838=*Erythrobalanus* Spach, 1842, while as generic names *Cerris* Raf., *Dryopsis* Raf., and *Scolodrys* Raf. are earlier than subgeneric or sectional names proposed by later authors, such as *Lepidobalanus* (Endl.) Oerst. and *Erythrobalanus* Oerst.

²⁵ Under existing rules it would be possible to replace several of the currently used sectional names for *Ficus* Linn., or proposed generic segregates, by such authors as Gasparini (1844), Miquel (1847-48; 1867); Bentham (1880); and King (1888). Rafinesque, *Sylva Telluriana* 57. 1838, says: "No one having thought to revise the genus [*Ficus*], I will do it as to Genera, by habit and outer visible parts, chiefly the outer calicle and umbilic of the perianthe and fruit called by others receptacle." He then proceeded briefly to characterize eight genera of which *Gonosuke* Raf., 1838, would replace *Covellia* Gasp., 1844; *Mastosuke* Raf., *Oluntos* Raf., *Perula* Raf., and *Rephesis* Raf., 1838=*Urostigma* Gasp., 1844; *Necalistis* Raf., 1838=*Ficus* Linn., sect. *Sycidium* King, 1887; *Tremotis* Raf., 1838=*Synoe-
 cia* Miq., 1848; and *Varinga* Raf., 1838=*Ficus* Linn., sect. *Eusyce* Benth., 1880. In addition he also characterized six new subgenera of *Ficus* of which *Cottana* Raf., 1838=*Ficus* Linn., sect. *Urostigma* (Gasp.) Endl., 1847, *Spherosuki* Raf. 1838, also being the equivalent of *Urostigma* (Gasp.) Endl.; *Kenkramis* Raf. and *Sukomorus* Raf., 1838=*Ficus* Linn., sect. *Eusyce* Benth. 1880; *Sukeon* Raf., 1838=*Ficus* Linn., sect. *Neomorphe* King, 1888; and *Tarega* Raf., 1838=*Ficus* Linn., sect. *Sycidium* King, 1887. Sections of *Spherosuke* Raf. are *Leiosuke* Raf., *Sukoisia* Raf., *Traxisuke* Raf., and *Tulosuke* Raf., all referable to *Urostigma* (Gasp.) Endl., characterized solely as to whether the fruits are "smooth or rough or villose or tuberculate." I have given no consideration to Sata's proposals for subsidiary names in *Ficus*, *Jap. Jour. Bot.* 10: 343-351. 1934, and as further amplified in his extensive 1944 work on the Formosan and Philippine species of the genus. Like all other authors he overlooked Rafinesque's proposals.

CHENOPODIACEAE:

- !*Ofaiston* Raf., 1837.

CARYOPHYLLACEAE:

- Amorgyne* Raf., 1838=*Siphonychia* Torr. & Gray, 1838.
Bunilis Raf., 1838=*Siphonychia* Torr. & Gray, 1838.
Plagidia Raf., 1838=§*Gastronychia* Small, 1933=*Paro-
 nychia* Mill., 1754.

RANUNCULACEAE:

- !*Enemion* Raf., 1820.

BERBERIDACEAE:

- Odostemon* Raf., 1818=*Mahonia* Nutt., 1818.

ANNONACEAE:

- Cananga* Raf., 1815=*Cananga* Hook. f. & Th., 1855, non
 Aubl. (*Canangium* Baill., 1878).
Glyptomeles Collins ex Raf., nomen nudum, 1840=§*Pity-
 othamnus* Small, 1933=*Asimina* Adans., 1763.

LAURACEAE:

- †*Bryantea* Raf., 1838=*Neolitsea* (Benth.) Merr., 1905
 (*Litsea* Lam., sect. *Neolitsea* Benth., 1880).

PAPAVERACEAE:

- **Adlumia* Raf., 1808 (*Bicucullia* Borkh., 1797).

CRUCIFERAE:

- †*Discovium* Raf., 1819=*Lesquerella* S. Wats., 1888.
 †*Oclorosis* Raf., 1834=*Iodanthus* Torr. & Gray, 1838.

CAPPARIDACEAE:

- §*Jacksonia* Raf., 1808=seq.
 !*Polanisia* Raf. 1818, 1819.
Tarenaya Raf., 1813=§*Neocleome* Small, 1933=*Cleome*
 Linn.

RESEDACEAE:

- Dipetalia* Raf., 1837=*Oligomeris* Camb., 1838 (*Ellimia*
 Nutt., 1838).
Hexastylis Raf., 1837, non Raf., 1825=*Caylusea* St. Hil.,
 1837 (conservation was not necessary).
Stylexia Raf., 1838=*Caylusea* St. Hil., 1837 (conserva-
 tion was not necessary).

SAXIFRAGACEAE:

- Hemieva* Raf., 1837=*Suksdorfia* A. Gray, 1880.
 §*Heterisia* Raf., 1837=*Saxifraga* Linn.
Leptaxis Raf., 1837=*Tolmiea* Torr. & Gray, 1840.
 §*Ozomelis* Raf., 1837=*Mitella* Linn.
 §*Pectiantia* Raf., 1837=*Mitella* Linn.
 §*Steiranisia* Raf., 1836=*Heterisia* Raf., 1837=*Saxifraga*
 Linn.
 §*Telesonix* Raf., 1837=*Boykinia* Nutt., 1834, non Raf.,
 1825.
 §*Therofon* Raf., 1838=*Boykinia* Nutt., 1834, non Raf.,
 1825.

ROSACEAE:

- Amelancus* Raf., 1837=§*Amelancus* F. Müll. & Vollm.,
 1914=*Amelanchier* Medic., 1789.
Basilima Raf., 1814, 1838=*Sorbaria* A. Braun, 1864
 (*Schizonotus* Lindl., 1829).
Chimanthus Raf., 1817=§*Laureocerasus* (Tourn.) Reichb.
 1828=*Prunus* Linn.
 §*Dasiphora* Raf., 1840=*Potentilla* Linn.
 †*Eleiosina* Raf., 1838=*Siberaea* Maxim., 1878.
Epicostorus Raf., 1832=*Physocarpus* Maxim., 1879 (*Opu-
 laster* Medic., 1799).
Ictorus Raf., 1839=*Physocarpus* Maxim., 1879 (*Opulaster*
 Medic., 1799).
Physocarpa Raf., 1838 (*Spiraea* Linn., sect. *Physocarpus*
 Cambess., 1824)=*Physocarpus* Raf., 1834=*Physotheca*
 Raf., 1838=*Physocarpus* Maxim., 1879 (*Opulaster*
 Medic., 1799).
Schizonotus Raf., 1838=*Holodiscus* Maxim., 1879.
Sericotheca Raf., 1838=*Holodiscus* Maxim., 1879.
 §*Stylipus* Raf., 1825=*Geum* Linn.

LEGUMINOSAE:

- §*Acmispon* Raf., 1838=*Hosackia* Dougl., 1829.
 §*Adipera* Raf., 1838=*Cassia* Linn.
 §*Asacara* Raf., 1825=*Gleditsia* Linn.
Bradburya Raf., 1817=*Centrosema* Benth., 1858.
 !*Cladrastis* Raf., 1824 (*Platysprion* Maxim., 1876).

LEGUMINOSAE (Continued):

- §*Delonix* Raf., 1837 (*Poinciana* auctt., non Linn.).
Diplonix Raf., 1817=**Wisteria* Nutt., 1818 (*Krauhina* Raf., 1808; *Thyrsanthus* Ell., 1817).
 §*Ditremexa* Raf., 1838=*Cassia* Linn.
 §*Emelista* Raf., 1838=*Cassia* Linn.
 †*Esclerona* Raf., 1838=*Xylia* Benth., 1842.
 §*Herpetica* Raf., 1838=*Cassia* Linn.
 §*Isandrina* Raf., 1838=*Cassia* Linn.
Krauhnia Raf., 1808=**Wisteria* Nutt., 1818 (*Thyrsanthus* Ell., 1817).
 §*Lomoplis* Raf., 1838=*Mimosa* Linn.
 §*Neltuma* Raf., 1838=*Prosopis* Linn.
 §*Orbexilum* Raf., 1832=*Psoralea* Linn.
 §*Peiranisia* Raf., 1838=*Cassia* Linn.
 §*Poponax* Raf., 1838=*Acacia* Willd.
Savia Raf., 1808=**Amphicarpa* Ell., 1818 (*Falcata* J. F. Gmel., 1791).

RUTACEAE:

- §*Poncirus* Raf. 1838.

MELIACEAE:

- Mioptrila* Raf., 1838=§*Toona* M. Roem., 1846=*Cedrela* P. Browne, 1756.

POLYGALACEAE:

- §*Anthallogea* Raf., 1838=*Anthallogea* Raf., 1834=*Polygala* Linn.
 §*Asemeia* Raf., 1833=*Polygala* Linn.
 §*Pilostaxis* Raf., 1838=*Polygala* Linn.
 §*Trichisperma* Raf., 1814=*Polygala* Linn.

EUPHORBIACEAE:

- §*Agaloma* Raf., 1838=*Tithymalopsis* Klotzsch & Garcke, 1859=*Euphorbia* Linn.
 §*Bivonea* Raf., 1814=§*Cnidocolus* Pohl, 1827=*Jatropha* Linn.
 §*Lepadena* Raf., 1838=§*Dichrophyllum* Klotzsch & Garcke, 1859=*Euphorbia* Linn.
 §*Zalitea* Raf., 1838=*Zygophyllidium* Small, 1903=*Euphorbia* Linn.

ANACARDIACEAE:

- §*Lobadium* Raf., 1819=*Rhus* Linn.

AQUILFOLIACEAE:

- **Nemopanthus* Raf., 1817, 1818 (*Ilicoides* Dum. Cours., 1802).

CELASTRACEAE:

- ! *Pachistima* Raf., 1818 (*Pachystima* Raf., 1840; *Paxistema* Raf., 1838).
Semarilla Raf., 1838=**Gymnosporia* Benth. & Hook. f., 1862 (*Burglaria* Wendl. ex Steud., 1841, nom.; *Scyto-phyllum* Eckl. & Zeyh., 1835; *Encentrus* Presl, 1841; *Polyacanthus* Presl, 1841).

STAPHYLEACEAE:

- †*Hebokia* Raf., 1838=*Euscaphis* Sieb. & Zucc. "1835" [1840].

ACERACEAE:

- #*Clinotrox* Raf., 1836, subgen. *Acer* Linn.=*Rufacer* Small, 1933=*Acer* Linn.
 #*Eriocarpum* Raf., 1836, subgen. *Acer* Linn.=seq.
 #*Sacharodendron* Raf., 1836, subgen. *Acer* Linn.=*Argentea* Small, 1933 (*Saccharodendron* Nieuwl., 1914)=*Acer* Linn.

RHAMNACEAE:

- Mystacinus* Raf., 1838=**Helinus* E. Mey., 1840.

VITACEAE:

- Quinaria* Raf., 1830=**Parthenocissus* Planch., 1887 (*Psedera* Neck., 1790).

GUTTIFERAE:

- §*Triadenum* Raf., 1808=*Hypericum* Linn.

VIOLACEAE:

- §*Cubelium* Raf., 1824=**Hybanthus* Jacq., 1760.

LOASACEAE:

- §*Nuttallia* Raf., 1817=*Mentzelia* Linn.

ELAEAGNACEAE:

- Lepargyrea* Raf., 1818=**Shepherdia* Nutt., 1818.

LYTHRACEAE:

- §*Didiplis* Raf., 1833=*Peplis* Linn.

MYRTACEAE:

- †*Gomphotis* Raf., 1838=*Thryptomene* Endl., 1838.

MELASTOMATACEAE:

- †*Alifana* Raf., 1838=*Brachyotum* Triana, 1867.
 †*Ephynes* Raf., 1838=**Monochaetum* (DC.) Naud., 1845.
Hedusa Raf., 1838=**Dissotis* Benth., 1849.
Kadalia Raf., 1838=**Dissotis* Benth., 1849.
 †*Lomanodia* Raf., 1838=*Astronidium* A. Gray, 1854 (*Nau-diniella* Krasser, 1893).

ONAGRACEAE:

- §*Meriolix* Raf., 1819=*Calylophis* Spach, 1835=*Oenothera* Linn.

UMBELLIFERAE:

- †*Ageomoron* Raf., 1840=*Astrodaucus* Drude, 1898.
 †*Anginon* Raf., 1840=*Rhyticarpus* Sonder, 1862.
 !*Cymopterus* Raf., 1819.
Cyrtospermum Raf., 1829, 1830=**Cryptotaenia* DC., 1829 (*Deeringa* Adans., 1763; *Aulacospermum* Neck., 1790).
 !*Lomatium* Raf., 1819.
 !*Musineon* Raf., 1820 (*Musenium* Nutt., 1840; *Daucophyllum* Rydb., 1913).
 !*Oreoxis* Raf., 1830.
 !*Osmorhiza* Raf., 1818 (*Washingtonia* Raf., 1818; *Gona-therus* Raf., 1818).
 !*Oxypolis* Raf., 1825 (*Tiedemannia* DC., 1829).
Pachiloma Raf., 1838=**Polytaenia* DC., 1829, non *Poly-taenium* Desv., 1827 (*Pleiotania* Coulter & Rose, 1909; *Phanerotaenia* St. John, 1919).
 !*Ptilimnium* Raf., 1819 (*Discopleura* DC., 1839).
 !*Spermolepis* Raf., 1825.

CORNACEAE:

- §*Cynoxylon* Raf., 1828, 1838=*Benthamidia* Spach, 1839=*Cornus* Linn.

PYROLACEAE:

- §*Braxilia* Raf., 1840=*Erxlebenia* Opiz, 1852=*Pyrola* Linn.
 §*Orthilia* Raf., 1840=*Ramischia* Opiz, 1852=*Pyrola* Linn.

ERICACEAE:

- §*Polycodium* Raf., 1819=*Picrococcus* Nutt., 1843=*Vac-cinium* Linn.
Xolisma Raf. 1819=**Lyonia* Nutt., 1818, non Ell., 1817.

PRIMULACEAE:

- †*Borissa* Raf., 1820=*Asterolinon* Hoffm. & Link, 1820.
 §*Steironema* Raf., 1820=*Lysimachia* Linn.

SAPOTACEAE:

- †*Spondogona* Raf., 1838=*Dipholis* DC., 1844.
 #*Spondolobus* Raf., 1838=*Geobalanus* Small, 1913=*Chrysobalanus* Linn.
 †*Xantolis* Raf., 1838=*Planchonella* Pierre, 1890.²⁶

OLEACEAE:

- Cartrema* Raf., 1838=§*Amarolea* Small, 1933=*Osmanthus* Lour., 1790.

GENTIANACEAE:

- Parrasia* Raf., 1837=**Belmontia* E. Mey., 1837.
Pleinta Raf., 1837=§*Lapithia* Griseb., 1845=*Sabatia* Adans., 1763.

ASCLEPIADACEAE:

- Anthanotis* Raf., 1817=§*Asclepiodora* A. Gray, 1876=*Asclepias* Linn.

CONVOLVULACEAE:

- †*Bonanox* Raf., 1821=*Calonyction* Choisy, 1833.
 †*Diatremis* Raf., 1821=§*Pharbitis* Choisy, 1833.
 #*Gomphula* Raf., 1838=*Bonanox* Raf., 1821=*Calonyction* Choisy, 1833.
 §*Stylisma* Raf., 1818=*Breweria* R. Br., 1810.
 §*Thyella* Raf., 1838=*Ipomoea* Linn.
 §*Turbina* Raf., 1838=*Rivea* Choisy, 1833.

HYDROPHYLLACEAE:

- Capnorea* Raf., 1837=**Hesperochiron* S. Wats., 1871.
Cohiba Raf., 1837=**Wigandia* H.B.K., 1818, non Neck., 1790.
 §*Decemium* Raf., 1817=*Hydrophyllum* Linn.

²⁶ Baehni, Candollea 9: 147-476, 1942, places *Planchonella* Pierre under *Pouteria* Aubl., 1775.

VERBENACEAE:

§*Stylodon* Raf., 1825=*Verbena* Linn.

LABIATAE:

! *Blephilia* Raf. 1819.

† *Hypogon* Raf., 1817=*Micheliella* Briq., 1897.

§ *Melosmon* Raf., 1837=*Teucrium* Linn.

Piloblephis Raf., 1838=§*Pycnothymus* Small, 1903=*Satureia* Linn.

† *Vleckia* Raf., 1808=*Lophanthus* Benth., 1829=*Agastache* (Gronov.) O. Kuntz, 1891.

NOLANACEAE:

† *Periloba* Raf., 1838=*Gubleria* Gaudich., 1842-46; *Sorema* Lindl., 1844; see Johnston, Contr. Gray Herb. 85: 104-105. 1929.

SOLANACEAE:

Deprea Raf., 1828=*Athenaea* Sendtn. 1846.

Diplukion Raf., 1838=*Iochroma* Benth., 1845.

Kukolis Raf., 1838=*Hebecladus* Miers, 1845.

Oronocoa Raf., 1838=*Athenaea* Sendtn., 1846.

§ *Quincula* Raf., 1832=*Physalis* Linn.

Ulticona Raf., 1838=*Hebecladus* Miers, 1845.

Valteta Raf., 1838=*Iochroma* Benth., 1845.

SCROPHULARIACEAE:

! *Agalinis* Raf. 1837.

! *Aureolaria* Raf., 1837.

† *Dasistoma* Raf., 1819=*Brachygyne* (Benth.) Small, 1903 (*Seymeria* Pursh., sect. *Brachygyne* Benth., 1846).

Etornotus Raf., 1840=§*Hydrotrida* Small, 1913=*Bacopa* Aubl. 1775.

§ *Macuillamia* Raf., 1840.

§ *Pagesia* Raf., 1817.

Peltimela Raf., 1833=§*Glossostigma* Arn., 1836.

† *Tomanthera* Raf., 1837=*Otophylla* Benth., 1846.

BIGNONIACEAE:

† *Cupulissa* Raf., 1837=*Anemopaegma* Mart., 1845.

† *Kigelkeia* Raf., 1838=*Kigelia* DC., 1845.

† *Lobonis* Raf., 1838=*Pithecoctenium* Mart., 1840.

† *Platolaria* Raf., 1838=*Anemopaegma* Mart., 1845.

† *Pongelia* Raf., 1838=*Dolichandrone* Fenzl, 1862.

† *Potamoxydon* Raf., 1838=*Couralia* Splitg., 1841; see Pichon, Bull. Soc. Bot. Fr. 92: 228. 1945.

† *Sererea* Raf., 1838=*Pithecoctenium* Mart., 1840.

OROBANCHACEAE:

Leptanium Raf., 1818=*Epifagus* Nutt., 1818.

§ *Thalesia* Raf., 1818=*Aphyllon* Torr. & Gray, 1848=*Orobanche* Linn.

LENTIBULARIACEAE:

Cosmiza Raf., 1838=§*Polypompholax* Lehm., 1844.

§ *Stomosia* Raf., 1838=*Utricularia* Linn.

§ *Vesiculina* Raf., 1838=*Utricularia* Linn.

ACANTHACEAE:

Calesias Raf., 1838=*Anisotis* Nees, 1847.

† *Crateola* Raf., 1838=*Anthacanthus* Nees, 1847.

Ethesia Raf., 1838=*Jacobinia* Moric., 1846.

Flavicomia Raf., 1838=*Schaueria* Nees, 1838.

† *Idanthisa* Raf., 1840=*Anisacanthus* Nees, 1842.

† *Oplonia* Raf., 1838=*Anthacanthus* Nees, 1847.

† *Stethoma* Raf., 1838=*Psacadocalymma* Bremek., 1948.

† *Upudalia* Raf., 1838=*Daedalacanthus* T. Anders., 1864.

RUBIACEAE:

† *Bubalina* Raf., 1820=*Burchellia* R. Br., 1820.

Cormigonus Raf., 1820=*Bikkia* Reinw., 1826.

CAPRIFOLIACEAE:

§ *Distigia* Raf., 1838=*Lonicera* Linn.

§ *Phenianthus* Raf., 1820=*Lonicera* Linn.

CUCURBITACEAE:

Arkesostis Raf., "1836" [1838]=§*Cayaponia* Silva Manso, 1836 (conservation was not necessary).

Micrampelis Raf., 1838=§*Echinocystis* Torr. & Gray, 1840.

CAMPANULACEAE:

Bolelia Raf., 1832=*Wittia* Kunth, 1850=§*Downingia* Torr., 1857.

Gynampsis Raf., 1833=*Wittia* Kunth, 1850=§*Downingia* Torr., 1857.

§ *Triodanis* Raf., 1838=*Specularia* A.DC., 1830.

COMPOSITAE:

! *Agoseris* Raf., 1817, 1819.

Anactis Raf., 1836=§*Brintonia* Greene, 1895=*Aster* Linn.

Chondrophora Raf., 1838=§*Bigelowia* DC., 1836, non Sm., 1819.

Diplogon Raf., 1817=§*Chrysopsis* (Nutt.) Ell., 1824.

! *Erechtites* Raf., 1817.

§ *Mesadenia* Raf., 1832=*Senecio* Linn.

! *Othake* Raf., 1838.

Ptilepida Raf., 1818=§*Tetraneuris* Greene, 1898=*Actinea* Juss., 1803.

Ptiloria Raf., 1832=§*Stephanomeria* Nutt., 1841.

! *Ratibida* Raf., 1817, 1818 (*Lepachys* Raf., 1819).

! *Serinia* Raf., 1817 (*Apogon* Ell., 1824).

Sitilias Raf., 1837=§*Pyrhopappus* DC., 1838.

Steiractis Raf., 1837=§*Laya* [Layia] Hook & Arn., 1833, 1838.

§ *Synosma* Raf., 1832=*Cacalia* Linn.

COMMENTS ON THE LIST OF RAFINESQUE GENERIC NAMES

How disastrous Rafinesque's erratic work was to his future reputation is indicated by the mere fact that although he originated about 2700 generic names in the plant kingdom, only about 30, an infinitesimally small percentage, are universally accepted and used by all botanists. This low score may be somewhat increased by adding the somewhat more than 70 cases that have been demonstrated above to have clear priority over later names of other authors now currently used to indicate this or that group of plants. It is a foregone conclusion that while some of these early Rafinesque names will be accepted, most of them will eventually be included in the official list of *nomina generica rejicienda*. In that list the unflattering total of 90 of Rafinesque's names have already found their places. Rafinesque's position would be somewhat further improved were all botanists willing to accept the findings of those modern representatives of the Britton-Rose-Rydberg-Small school who, in subdividing large genera, have reinstated approximately 80 of Rafinesque's generic names.

However, it is felt that it is a forlorn hope that most contemporaneous and future systematic botanists will accept the philosophy of those who argue that the large and more or less polymorphous genera must be divided into few to many smaller ones. They will argue that the inter-relationships of groups can be indicated just as clearly by retaining subgenera and sections, and that it is not necessary to raise these minor groups to generic status or to make the inordinate number of transfers of specific names the latter course requires. On the basis of fairness, however, this modern school of "splitters" was eminently correct in accepting Rafinesque names for the entities that both he and they recognized and for which the former originated the generic name. Too often in the history of botany those who would recognize minor categories as genera have selected names *de novo* regardless of those which others may have proposed at earlier dates. To a large degree this failure on their part resulted in the rather extraordinary number of about 160 cases where, on the basis of strict priority, Rafinesque's generic names should have been accepted.

That about 90 of Rafinesque's generic names have been officially discarded in spite of their having priority is largely a reflection on Rafinesque and the utterly careless type of work he sponsored. Judged by any reasonable standards anyone who will critically examine the record could only conclude that in his highly erratic work, Rafinesque was utterly irresponsible. No matter if his conclusions were correct, as they were on occasion, he failed to make himself clear, failed in general to provide even reasonably good descriptions, failed too often even to mention the really striking differential characters by which this or that entity could safely be recognized, failed in his feeble attempts at documentation, and failed in his associations with contemporaneous botanists.

Adanson actually stands at the head of the list of those who have proposed generic names that have been included in the official list of *nomina generica rejicienda* with a total of about 115 names, but it should be remembered that Adanson was arguing essentially for a monomial rather than a binomial system of nomenclature. Rafinesque is second on the list with a fair chance of ultimately replacing Adanson in the leading position, the total of officially discarded Rafinesque names being now about 90. Among all botanists of all time these two have no competitors, for Necker is a poor third with about 35 discarded ones, and few others exceed 15 names. To indicate the general fairness of the groups who made up the lists of rejected names even Linnaeus who originated the binomial system in 1753 loses about 15 generic names by their being eliminated in favor of those proposed at later dates by other authors. Even those who figuratively weep at the treatment accorded to Rafinesque in eliminating about 90 of his generic names that admittedly have clear priority, do not realize that some of the despised Rafinesque names have been officially conserved against those of earlier authors, such as *Adlumia* Raf. (1808) and *Nemopanthis* Raf. (1817, 1819) with *Bicucullia* Borkh. (1797), and *Ilicoides* Dum. Cours. (1802) discarded; and this with the original publication of *Adlumia* consisting only of: "*Adlumia*, (cirrhosa) which is the *Fumaria fungosa* Aiton or *F. recta* of Mich."

We may admit that Rafinesque was well in advance of most of his contemporaries in many of his suggested generic segregates. But credit accruing to him for his manifestly logical contributions in this field is more than counterbalanced by the enormous number of illogical proposals. Granting *strict priority*, regardless of the official list of conserved names, and including the minor segregates that a few individuals have accepted, the score is only about 240 and not more than about 30 universally accepted; and under the rules of botanical nomenclature of the above total 90 are officially eliminated from consideration. Further, in this work it has been demonstrated that in about 70 additional cases which are included in the above total, Rafinesque's generic names have clear priority over those proposed by other authors for the same groups.

ACCEPTANCE OR REJECTION OF RAFINESQUE NAMES

If other botanists who are familiar with a special group or with a special flora wish to accept a Rafinesque name, when it can definitely be shown what the limit of the Rafinesque entity is, and displace a later published name that is in current use, this is their privilege. To assist them this text has been arranged, not in a single sequence, as in *Index Kewensis* and *Index Filicum*, but alphabetically by genera under natural groups in the family sequence of the Engler and Prantl system. Thus it is that the specialist devoting his time to an intensive study of a natural group (family) will find in one place all or most of the pertinent Rafinesque references to that group. Safely to place most of the Rafinesque genera is relatively simple, for generally that strange individual clearly indicated his type-species, and this at a time when such a procedure was distinctly unusual. To place many of his inadequately described species where the descriptions were based on actual specimens is an almost hopeless task.

I believe, and I am sure that most botanists will agree with me, that where economic or important horticultural species are concerned, and in those cases where a very large number of specific names are involved, the principle of conservation of the currently used generic name should be followed and the earlier Rafinesque name should be discarded; but where the genus is a small and unimportant one, of interest only to taxonomists, the principle of priority should prevail and the Rafinesque name should be accepted, as has recently been done by Stearn in 1943 in displacing *Beauverdia* Herter (1941) by *Ipheion* Raf. (1837), and by C. G. Foster in 1946 in dropping *Symphyostemon* Miers (1841) in favor of *Phaiophleps* Raf. (1838), to say nothing of the Rafinesque versus J. K. Small cases discussed on page 25. I hold no brief for careless bibliographic work, and under no circumstances, if I elected to follow certain recently proposed generic segregations, would I accept a Smallian generic name proposed as new in 1933 when it can definitely be shown that the same entity was characterized and assigned a valid name by Rafinesque a century or more earlier. Any other course merely puts a premium on carelessness. There is, thus, a reason for intensive bibliographic research on the part of those who will propose new generic names by subdividing large and cumbersome groups. Merely because a proposed generic name has been sunk in synonymy is no reason for accepting such reductions as always correct; and if, as is the case with Rafinesque, a number of his proposed new generic names were never listed, this is all the more reason why the list should be completed and published.

GENERALLY ACCEPTED RAFINESQUE GENERIC NAMES

Rafinesque's contemporaries seriously objected to his erratic work, considered it valueless, and further that it could and should be ignored. Yet universal acceptance has been accorded to many of his genera including such well known ones as *Distichlis*, *Sitanion*, *Peltandra*, *Clintonia*, *Hexalectris*, *Isotria*, *Ofaiston*,

Enemion, *Adlumia*, *Polanisia*, *Cladrastis*, *Nemopanthus*, *Pachistima*, *Cymopterus*, *Lomatium*, *Musineon*, *Oreoxis*, *Osmorhiza*, *Oxyopolis*, *Ptilimnium*, *Spermolepis*, *Blephilia*, *Agalinis*, *Aureolaria*, *Pagesia*, *Agoseris*, *Erechtites*, *Othake*, *Ratibida* and *Serinia*. This is an impressive list even if we are forced to admit that only a very small percentage of Rafinesque's total of 2700 new generic names is included.

POPULAR WRITER'S IDEAS

One supposedly responsible individual in recent years (see p. 51) has made the bald claim that: "If the rules of priority were strictly and justly applied, Rafinesque would be found to have antedated a large part of the work of Say amongst shells, of his enemy Harlan amongst mammals, in botany of Gray and De Candolle." Let us see how this works out in botany for the genera alone. Of the scores of genera proposed by the two eminent botanists indicated, on the basis of strict priority, only about ten would be discarded in favor of those Rafinesque proposed. The record as to species, as judged by what contemporary and later botanists have accepted, gives the sympathizers of Rafinesque little cause for congratulation, for here again surprisingly few of the more recent names can be replaced by earlier Rafinesque ones. The binomial field is not complicated by lists of conserved and rejected names. Among the 6700 binomials proposed by Rafinesque he would lose to De Candolle and Gray combined only about a half score of names, as far as competent botanists have been able to interpret approximately what Rafinesque intended by his remarkably incomplete and, it is feared, often inaccurate technical descriptions. It seems strange even to be called upon to mention in terms of comparison such an utterly irresponsible super-erratic individual as Rafinesque and such highly critical, careful workers as De Candolle and Asa Gray. The call here was due to utterly unjust and highly erroneous conclusions of a popular writer who should have known better. Perhaps it were better that the strange Peattie statements were not even mentioned. However, though he manifestly was not writing fiction, he succeeded in this case in distorting the truth (see p. 50).

RAFINESQUE VERSUS ASA GRAY

On the basis of strict priority Gray would lose to Rafinesque the following generic names: *Stenanthium* (A. Gray, ut subgen. 1837) Kunth, 1843 = *Anepsa* Raf. 1837; *Amianthium* A. Gray, 1848 = *Chrosperma* Raf. 1837; *Helionopsis* A. Gray, 1859 = *Hexonix* Raf., 1837 and *Kozola* Raf., 1837; *Darbya* A. Gray, 1846 = *Nestronia* Raf., 1838; *Siphonychia* Torr. & Gray, 1838 = *Amorgyne* Raf., 1838 and *Bumilis* Raf., 1838; *Iodanthus* Torr. & Gray, 1838 = *Oclorosis* Raf., 1834; *Suksdorfia* A. Gray, 1880 = *Hemieva* Raf., 1837; *Tolmiea* Torr. & Gray, 1840 = *Leptaxis* Raf., 1837; *Astronidium* A. Gray, 1854 = *Lomanodia* Raf., 1838; *Asclepiadora* A.

Gray, 1876 = *Anthanotis* Raf., 1817 (= *Asclepias* Linn.); *Aphyllon* Torr. & Gray, 1848 = *Thalesia* Raf., 1818; and *Echinocystis* Torr. & Gray, 1840 = *Micrampeles* Raf., 1839. In all only about eleven genera are involved, as opposed to nearly thirty most sketchily "published" and even more sketchily described ones that Gray and De Candolle for the most part accepted: and incidentally they at times accepted other Rafinesque generic names which later botanists, for valid reasons, abandoned.

Gray frankly admitted in 1841 that: "Many of Rafinesque's names should have been adopted; some as a matter of courtesy, and others in accordance with strict rule." In justice to Rafinesque, it is regrettable that the desirability of critically considering what Rafinesque proposed was not realized by botanists here or elsewhere at an early date. Had this been done we probably would not now have to consider the unflattering total of 90 of Rafinesque's generic names that have been officially rejected in favor of later ones proposed by other authors. Undoubtedly the majority of the many additional Rafinesque genera, discussed above as having priority, will ultimately be rejected in order to obviate the necessity of publishing a great many new combinations under the rule of strict priority, and thus further upsetting the already too complicated nomenclature of plant species.

RAFINESQUE VERSUS SMALL

If on the basis of no knowledge of the significance of his claims a popular writer takes such eminent botanists as Asa Gray and De Candolle to task, what should one's reaction be to the careless bibliographic work one notes within the present century on the part of certain more recent botanists? Consider only one case, that of the late John K. Small, who believed in narrow generic limits. When he concluded that certain groups should be subdivided it became necessary to select new generic names for his new groups. He actually did reinstate various genera that had been named and characterized by Rafinesque and other earlier authors which had been reduced to synonymy in the interim. But he overlooked an unusually large number of validly published Rafinesque generic names that he should have detected. Thus *Cuthbertia* Small and *Tradescantella* Small, 1903 = *Phyodina* Raf., 1837; *Brachygyne* Small, 1903 = *Dasistoma* Raf., 1819; *Delopyrum* Small, 1913 = *Phyllepidum*, Raf., 1808; *Neocleome* Small, 1933 = *Tarenaya* Raf., 1813; *Zygophylidium* Small, 1903 = *Zalitea* Raf., 1838; *Geobalanus* Small, 1913 = *Spondolobus* Raf., 1838; *Amarolea* Small, 1933 = *Cartrema* Raf., 1838; *Pycnothamnus* Small, 1903 = *Piloblephis* Raf., 1838; and were it really desirable to segregate genera from *Acer*, as Small has done, *Clinotrox* Raf. and *Sacharodendron* Raf., both published by Rafinesque in 1836 as subgenera of *Acer*, equal *Rafacer* and *Argentacer* Small 1933, respectively. Yet here is an author who believed in absolute priority in publication, not even recognizing the official list of

conserved generic names. One judges that in place of censuring the older authors, who frankly believed that Rafinesque's propositions were unworthy of acceptance and that they could and should be ignored, some more modern authors might be mildly blamed for their inconsistencies and bibliographic oversights. If anyone elects to follow Small in these fine generic segregates he would scarcely be justified in accepting a Smallian generic name, published within the present century, where Rafinesque has antedated him.

A SIMPLE BUT IMPRACTICABLE SOLUTION

It is admitted that the simplest solution to the Rafinesque problem would be to outlaw all Rafinesque botanical publications by appropriate action of some International Botanical Congress. However, in objection to this it should be noted that from Rafinesque's first botanical paper in 1806 to his last in 1840, technical names were included which have been universally accepted by all botanists. The evil of eliminating such widely used names as *Distichlis*, *Peltandra*, *Clintonia*, *Adlumia*, *Polanisia*, *Cladrastis*, *Nemopanthus*, *Cymopterus*, *Lomatium*, *Musineon*, *Osmorhiza*, *Oxypolis*, *Spermolepis*, *Blephilia*, *Agoseris*, *Erechtites* and other well-known names, all originated by Rafinesque, would more than offset the temporary inconvenience of replacing a currently used generic name, such as *Dolichandrone* Fenzl (1862) by *Pongelia* Raf. (1838), or others as indicated on pages 20-23. Thus it seems to be a logical course to follow to continue to select the few sound grains from the overwhelming amount of chaff in the Rafinesque technical botanical papers, even if, occasionally, some more or less universally used generic or specific name might fall before those proposed by Rafinesque at earlier dates. In fairness to Rafinesque, no matter how vexed one may be at the inadequacy of his published work, his names, when valid, should be accepted unless eliminated by proper authority through their inclusion in the official list of rejected generic names.

COMMENTS ON THE LIST OF CONSERVED NAMES

Anyone who has a working knowledge of the official list of conserved generic names will realize some of its faults. It is, of course, not complete, and unquestionably many additions should be made to it. This study alone, in which it has been shown that there are no less than about 70 cases, previously overlooked, where Rafinesque's generic names have clear priority over currently accepted ones, indicates the need of making judicious additions to the list of *nomina generica conservanda*; until this is done any botanist at any time is free to accept this or that of the earlier Rafinesque generic names, if he cares to do so, and transfer to them the names of the proposed species under the displaced generic names.

Thus *Montrichardia* Crueg., 1854 = *Pleuropsa* Raf., 1838; *Bifrenaria* Lindl., 1843 = *Adipe* Raf., 1837; *Lycaste* Lindl., 1843 = *Deppia* Raf., 1838; *Iphigenia* Kunth, 1843 = *Aphoma* Raf., 1837; *Beauverdia* Herter, 1941 =

Ipheion Raf., 1837; *Chionographis* Maxim., 1867 = *Siraitos* Raf., 1838; *Heloniopsis* A. Gray, 1859 = *Hexonix* Raf., 1837 and *Kozola* Raf., 1837; *Pasania* Oerst., 1866 = *Arcaula* Raf., 1838 and *Balanaua* Raf., 1838; *Castanopsis* (G. Don, 1835, sect.) Spach, 1842 = *Balanoplis* Raf., 1838; *Phthirusa* Mart., 1830 = *Hemistria* Raf., 1820; *Struthanthus* Mart., 1830 = *Steirotis* Raf., 1820; *Neolitsea* (Benth., sect. 1880) Merr., 1905 = *Bryantea* Raf., 1838; *Xylia* Benth., 1842 = *Escleronia* Raf., 1838; *Lesquerella* S. Wats., 1888 = *Discovium* Raf., 1819; *Iodanthus* Torr. & Gray, 1838 = *Oclorosis* Raf., 1834; *Siberaea* Maxim., 1878 = *Eleiosina* Raf., 1838; *Euscaphis* Sieb. & Zucc., 1840 = *Hebokia* Raf., 1836; *Dissotis* Benth., 1849 = *Hedusa* Raf., 1838 and *Kadalia* Raf., 1838; *Astronidium* A. Gray, 1854 = *Lomanodia* Raf., 1838 (*Naudiniella* Krasser, 1893); *Austrodaucus* Drude, 1898 = *Agemoron* Raf., 1840; *Dipholis* DC., 1844 = *Spondogona* Raf., 1838; *Planchonella* Pierre, 1890 = *Xantolis* Raf., 1838; *Agastache* (Clayt., 1762) O. Kuntze, 1891 = *Vleckia* Raf., 1808; *Kigelia* DC., 1845 = *Kigelkia* Raf., 1838; *Pithecoctenium* Mart., 1840 = *Sererea* Raf., 1838 and *Lobonis* Raf., 1838; *Dolichandrone* Fenzl, 1862 = *Pongelia* Raf., 1838; *Anemopaegma* Mart., 1845 = *Cupulissa* Raf., 1837 and *Platolaria* Raf., 1838; *Calonyction* Choisy, 1833 = *Bonanox* Raf., 1821; *Pharbitis* Choisy, 1833 = *Diatremis* Raf., 1821; *Jacobinia* Moric., 1846 = *Ethesia* Raf., 1838; *Daedalacanthus* T. Anders., 1864 = *Upudalia* Raf., 1838; *Anacanthus* Nees, 1847 = *Crateola* Raf., 1838; *Anisacanthus* Nees, 1847 = *Oplonia* Raf., 1838 and *Idanthisa* Raf., 1840; and *Echinocystis* Torr. & Gray, 1840 = *Micrampeles* Raf., 1838.

The above is only a partial list of the currently accepted names that could, on the basis of strict priority, be replaced by Rafinesque's earlier ones. For a more complete list see the tabulation on p. 20. The above list was selected arbitrarily from various families extending from the Araceae to the Cucurbitaceae merely to indicate the desirability of definite action. Because of the horticultural interest of certain genera (*Montrichardia*, *Lycaste*, *Kigelia*, *Jacobinia*), because of the economic interest of others (*Xylia*), or because of the very large number of species involved (*Pasania*, *Castanopsis*, *Neolitsea*, *Astronidium*, *Planchonella*, *Anemopaegma*) it is believed that at least these currently used names should be conserved by appropriate action. In general, in reference to the larger number of cases involved, one can see little or no reason for not accepting the Rafinesque names. One hesitates to recommend that the Rafinesque names be discarded in all cases. The specialist in this or that group should be the best equipped individual to make the necessary recommendations.

While it is believed that the list of conserved names should be increased one sometimes regrets that certain names have been included in preference to older ones. A striking case is *Paphiopedilum* Pfitz., 1886 for which Rafinesque published three names in 1838, *Cordula*, *Menophora*, and *Stimegas*; and it so happened that in 1912 Rolfe actually accepted *Cordula* and transferred

to it fifty accepted names in *Paphiopedilum*. I personally believe that in this case *Cordula* Raf. should have been retained. The reason was, of course, that *Paphiopedilum* included a great many showy species cultivated by orchid fanciers; yet these species are still known to all orchid enthusiasts as representatives of *Cypripedium*, are familiarly spoken of as "cyps" and with orchid growers they will always be known under the name *Cypripedium* regardless of what generic name the botanists select. I submit that *Cordula* or *Menophora* or *Stimegas* are all names preferable to the sesquipedalian *Paphiopedilum*.

Columella Lour. (1790) is older than *Columellia* Ruiz & Pavon (1794), yet because the latter typifies the Columelliaceae there was every reason why *Columella* Lour. should have been rejected. Against it *Cayratia* Juss. (1823) was conserved, yet the pedigree of its type-species is distinctly clouded; see Merrill, Trans. Am. Philos. Soc. II. 24(2): 255. 1935, where it is shown that available also were *Lagenula* Lour. (1790), *Pedastis* Raf. (1838), and *Causonia* Raf. (1838). In this case would not a better choice have been *Lagenula* Lour.? Note *Cananga* Hook. f. & Thoms., 1855, non Aubl., 1775, actually conserved against *Canangium* Baill., 1878; and now *Cananga* Raf., 1815, appears; yet, were the latter validly published, which it is not, Rafinesque's priority would avail him naught.

Merely because personal opinion sometimes dictates a preferential choice is no reason for not accepting the authorized list as published, even though one might suggest improvements; yet doubtless there will always be individualists who will follow no code of nomenclature in its entirety. It is wholly unlikely that any future transgressor can possibly equal Rafinesque's record in nonconformity.

SUBGENERA AND SECTIONS

Rafinesque proposed an extraordinary number of subgenera, but these, like most of his genera and species, are most inadequately characterized. Yet in the majority of cases it is possible to place them definitely, for he generally indicated their types or listed illustrative species, making it a simple matter to typify the subgenus or section. Because of his lack of clarity it is sometimes difficult or perhaps at times impossible to decide whether the author intended the defined and named group to represent a genus or a subgenus, as he used the expression "genus or subgenus" and left the matter of interpretation to his successors. There is thus an opportunity for taxonomic disagreements as illustrated by the Rickett-Farwell²⁷ discussions as to

whether certain entities proposed by Rafinesque are genera or subgenera. One cannot always determine with certainty what category Rafinesque intended by this or that name, for sometimes he was by no means clear. As Rickett has noted one cannot interpret by typography because of Rafinesque's inconsistencies. What can one do in such a case as *Distimex*, *Onatex*, *Lentex*, and *Tristimex*, Good Book 83, 1840, where he says that in 1830 he had divided *Carex* into four subgenera "which may be deemed sub-families now" and then proceeds very briefly to characterize them. It was by no means unusual for him to propose a new name and indicate it as representing a "new genus or subgenus," sometimes proceeding to publish binomials under it, sometimes not.

The total number of subgenera and sections proposed and more or less definitely characterized by Rafinesque is about 335. It is rather interesting to note that in a number of cases the same entities have been named and described by later authors as new genera without regard to Rafinesque's earlier proposals. Examples are *Clinotrox* Raf. (1836) as a subgenus of *Acer* Linn.=*Rufacer* Small (1933); *Sacharodendron* Raf. (1836) and *Eriocarpum* Raf. (1836), as subgenera of *Acer* Linn.=*Argentacer* Small (1933); and *Spondolobus* Raf. (1838), as a subgenus of *Chrysobalanus* Linn.=*Geobalanus* Small (1913).

Occasionally what Rafinesque characterized and named as a subgenus was inadvertently entered in *Index Kewensis* as a genus, and the listed species were actually transferred in the latter work. In a few cases Rafinesque himself, in naming and describing a certain group definitely as a subgenus actually published new binomials under what he had designated as a subgeneric name. One can only consider the binomials involved as properly published regardless of Rafinesque's statement as to the category of the group involved.

SPECIES

Rafinesque proposed an inordinate number of new species, his published work literally touching all parts of the world, Europe, Africa, Asia, Australia, North and South America, and various groups of islands in both the Old and the New Worlds. Very many of these were based on actual specimens collected by himself, received in exchange, or sent to him for study by an extraordinarily large number of correspondents. In addition to the species named and described by him *de novo* on the basis of actual specimens, he also published a very large number of binomials by transfer from the genera in which they were originally described, or in the form of new names, when, for one reason or another, Rafinesque considered the original name to be inappropriate. The grand total of his new binomials approximates 6700.

Apparently he favored certain groups. Thus in the genus *Clintonia* that he originally named and described, where, in the area covered by him, modern botanists recognize but two species, and these not sharply sepa-

²⁷ Rickett, W. H. The Names of Cornus. Torreyia 42: 11-14. 1942.

——— Cornus Again. Op. cit. 131.

Farwell, O. A. Cornus, a Reply. Op. cit. 130.

——— Eukrainia and Cynoxylon not Genera of Rafinesque. Rhodora 34: 29-30. 1932.

Hara, H. The Nomenclature of the Flowering Dogwood and its Allies. Jour. Arnold Arb. 29: 111-115. 1948.

rated, Rafinesque recognized 21 distinct species and 17 varieties. In *Vitis*, where modern authors recognize few distinct species in eastern North America, for this region Rafinesque recognized about 65 species and 75 varieties. In *Citrus* his record is about 15 species and 16 varieties where most recent authors recognize perhaps 5 species—yet it should be noted that within the past few decades Tanaka, Wester, and others who have proposed a great many new species, actually cultigens, analogous to those Rafinesque named a hundred years ago, made no effort to identify the status of Rafinesque's entities. In *Gossypium*, 29 species and 13 varieties, all or most of them cultigens, were most inadequately described; few of these have been even considered by any modern specialist who has attempted to make order out of chaos in this difficult group. There are a great many similar cases.

It is with the species rather than with the genera that Rafinesque proposed that most difficulties are encountered in making identifications. The new genera were mostly based on previously described species of other authors and if the identity of the type-species can be determined, then the application of the generic name follows. Most of Rafinesque's new species were based on actual specimens, these often poorly prepared, and it is admitted that in a high percentage of cases the descriptive data are so utterly inadequate that absolute identification becomes doubtful in a majority of the cases. Occasionally the characterizations were excellent, leaving nothing in doubt, but this was only occasionally. In the vast majority of cases one may frankly admit that suggested reductions are merely guesses. In general it is probably best to let sleeping dogs lie, accepting a Rafinesque name only when the identity of the species can be demonstrated without a shadow of doubt.

VARIETIES

A large number of varieties were indicated by Rafinesque as new, very few of which have ever been considered by his successors. Believing as he did that species were constantly being formed in nature, and noting minor variants from an assumed typical form, it was only logical that he should assume that many of these intermediate or slightly aberrant forms represented varieties. His attitude is rather clearly expressed in the following quotation from his *Sylva Telluriana* 155. 1838:

"As to the varieties, most of our species are such, being natural deviation by seedlings assuming peculiar forms in the woods and wilds as it is done constantly in our fields and gardens by the cultivated trees and plants. Those best known afford most of our noticed varieties or specific deviations; but it is only our ignorance or neglect that prevents us from ascertaining in others all consimilar varieties."

In attempting to establish varieties (and incidentally he published the names of approximately 900 new ones) he was just as unsuccessful as he was in attempting to establish new genera and new species, and for the same general reasons—poor judgment, and utterly inadequate

descriptive data. As a matter of fact in a vast majority of the cases he published no descriptions for his new varieties, apparently believing that all that was necessary was for him to select a descriptive varietal name such as *longifolia*, *pumila*, *glauca*, *lucida*, *parviflora*, etc. With the destruction of his herbarium there is now no way by which these fugitive names can be placed. They are thus scarcely worthy of being listed.

Even when he did provide varietal descriptions these were always short or very short, often consisting of only two or three words. Because in all standard indices varieties were not listed, there was no practical method by which Rafinesque's successors could determine what he had proposed in this field. Among the very few Rafinesque varieties that later authors have considered it is noted that *Sassafras triloba* Raf. var. *mollis* Raf. is now *S. albidum* (Nutt.) Nees. var. *molle* (Raf.) Fernald, and that Rehder recognizes *Cephalanthus occidentalis* Linn. var. *pubescens* Raf. Scarcely more have been reduced to synonymy, some of the very few examples being *Liriodendron tulipifera* Linn. var. *alba acutifolia* Raf. and var. *flava obtusiloba* Raf., and *Diospyros virginiana* Linn. var. *concolor* Raf., var. *macrocarpa* Raf., and var. *microcarpa* Raf.

Even if Rafinesque's very numerous new varieties had been listed at an early date, it is very doubtful if many more than the few referred to above would have continued in botanical literature either as valid varieties or as synonyms. The exact status of nearly all of his proposed varieties is actually much more indefinite than is the corresponding status of very many of his species which were based on actual specimens. What a catastrophe was the treatment accorded by Elias Durand to Rafinesque's herbarium! See p. 36.

There is no easy method of determining whether or not Rafinesque was the original author of a certain varietal name, for there is no even reasonably complete list of the proposed varieties and their places of original publication as there is for genera and species. To be certain one would have to check a large part of the botanical literature published previously to the third and fourth decades of the nineteenth century. In preparing this index it has been assumed that wherever Rafinesque lists a variety, he is the author of the varietal name.

THE TYPES OF NEW NAMES

In examining Rafinesque's treatment of both genera and species one immediately realizes that two categories are involved. The first includes those entities that he described as new on the basis of actual specimens before him; the second those based on purely bibliographic references with no authentically named specimens available to him for study and comparison.

Because of the erratic nature of Rafinesque's descriptive work one soon realizes that his new genera and his new species in the first category are much more difficult to place than are those in the second one. Had Rafinesque's herbarium been preserved the task of interpreting many of his assumed new forms would

have been greatly simplified; as it is we have to depend on his usually short, always inadequate, and too often generalized descriptions, and we have no means of checking the accuracy of his interpretation of morphological characters in the absence of authentically named specimens. One may often determine the status of a Rafinesque species by the process of elimination. In brief this may be characterized as: What plant actually growing in or near the locality cited by Rafinesque actually conforms to his description?

When one has acquired an intensive knowledge of a certain flora, based on ample field work, it is surprising how often an enigma in the form of an inadequately described species can be solved where the type in question came from some definite locality within the region the modern botanist is familiar with. If, as Rafinesque does, on occasion, cite an exact locality such as the Falls of the Potomac River, or Peaks of Otter, as the place where he secured specimens which he later made the type of a new species, then if one finds the description to be inadequate one should consider what plants actually grow at the indicated place and which one agrees with the short description. Thus *Polypodium erosum* Raf. is very inadequately described, but the type is indicated as growing "on rocks in the Knob hills of Kentucky"—the only fern that occurs in that habitat and locality that conforms to Rafinesque's description is *Cystopteris fragilis* (Linn.) Bernh., and this we may safely accept as properly reduced to the latter.

A somewhat different case is that represented by *Phyllepidum* Raf., which has long been placed in the Amaranthaceae as a *genus valde dubium*. In his treatment of the Amaranthaceae, *North American Flora* 21: 169. 1917, Standley left it unaccounted for, stating that "the description and illustration (Raf. Specchio 1: pl. 4) do not apply to any known North American plant of the family," which is true. Rafinesque says: "Ritrovai questa pianta vicino Baltimore, provincia di Maryland, America settentrionale; nasce in luoghi arenosi." Now the vicinity of Baltimore is not exactly unknown botanical territory. In spite of the fact that the type is not extant, an attentive consideration of the description and the reasonably good illustration clearly shows that *Phyllepidum* Raf., instead of belonging in the Amaranthaceae, actually represents *Polygonella* Michx. (1803) of the Polygonaceae and thus another problem of identity is solved. Rafinesque had slightly misinterpreted certain morphological details, thus failing to realize that this supposedly amarantaceous plant actually belonged in another very natural group and incidentally one that he favored in proposing generic segregates.

In the second category, where a new Rafinesque name was based wholly on a previously described or illustrated species of some other author, all we have to do to understand the application of the Rafinesque name is to determine the status of the originally described form. Here fortunately Rafinesque's contemporaries and predecessors were, in general, much more exact than he was. Thus it is that the vast majority of the new

Rafinesque genera and species that were based on the work of his predecessors can definitely be placed, no matter from what part of the world the original form was described. This is true even when Rafinesque's descriptive data are for the most part conspicuous by their absence. The original description of the basic species may fortunately be ample, or the actual type is extant, or modern amplified descriptions exist. Beautiful examples of the cryptic publication of new Rafinesque names, all of which are understandable because of the synonyms cited, are such new genera as *Adlumia*, *Chryza*, *Jacksonia*, *Macrotrys* and many others published in 1808 as: "*Adlumina* (cirrhosa), which is the fumaria fungosa Aiton, or *F. recta* of Michx."; "*Chryza* (borealis), *Helleborus trifolius* Linn."; "*Jacksonia* (trifoliata), *Cleome dodecandra*, Linn."; "*Macrotrys* (acteoides), *Actaea racemosa*, Linn." With such a cryptic publication as *Jacksonia* Raf., cited above, which in my opinion is invalid, because of the utter absence of any description, and Rafinesque never having considered the name elsewhere, we note that both Greene and Rydberg have replaced *Polanisia* Raf. (1818, 1819) by *Jacksonia* Raf. (1808) which, were others to follow them, would render necessary a new name for the Australian leguminous genus *Jacksonia* R. Br. (1810).

Even more cryptic is Rafinesque's original and only use of the name *Washingtonia* Raf. In discussing *Myrrhis claytoni* Michx. (1803) he says, *Am. Monthly Mag. Crit. Rev.* 2: 176. 1818: "but *Myrrhis* happens to be erroneous also, by being similar to *Amyris*, a previous genus, whence several names have been proposed for it, *Washingtonia*, *Osmorhiza*, *Gonatherus* [all here first proposed!]; but these are not yet published; the second is perhaps the best." *Osmorhiza* was the name Rafinesque accepted and later characterized, for he never elsewhere reconsidered *Washingtonia*. Yet Coulter and Rose who initiated the chain of nomenclatural upsets, were followed by Rose, Heller, Britton, Rydberg, and Koso-Poljansky, who all accepted *Washingtonia* Raf. as validly published. They transferred about fifteen specific names from other genera to *Washingtonia*. This was not the end, for *Washingtonia* H. Wendland (1879), a genus of palms, was erroneously considered to be invalid and renamed *Neowashingtonia* by Sudworth. Manifestly *Washingtonia* Winslow (1854), proposed as a generic name for what is now known as *Sequoiadendron* Buchholz, has no standing, as it was merely a *nomen provisorium*, a forbidden category. *Washingtonia* Raf. should never have been accepted. It was not only unaccompanied by a description, although not exactly a *nomen nudum*, as the cited binomial supplies the clue to its identity, but it is furthermore definitely a *nomen alternativum*, another forbidden category; and incidentally *Washingtonia*, *Osmorhiza*, and *Gonatherus* are, as originally used by Rafinesque in 1818, all *nomina provisoria*. One suspects that the original searcher who located the "publication" of *Washingtonia* (it was not admitted to *Index Kewensis* until its second Supplement appeared in 1904) was an ardent disciple of the rule of strict priority who was never checked by those who

followed him and accepted his conclusions. In this particular field, no matter what author is involved, too much cannot be safely accepted on the basis of faith alone; it is always best to check the original publications of all names.

The slightest excuse, or apparently in some cases no excuse, was needed by Rafinesque when the matter of proposing new names was involved. One of the strangest cases is that involved in the following quotation from the *Sylva Telluriana* 85. 1838:

"500 Capupica Raf. probably a distinct G. type *C. odorata* Raf. Piper carpupija RP tree of Peru with fragrant leaves—Piper methysticum and Churumaya are also probably types of other Genera? to be called *Methysticum esculentum* Raf. and *Churumaya arborea* Raf. Is not Piper betel another? to be called *Betela mastica* Raf."

Rafinesque's sketchy treatment is a beautiful case of putting the matter up to the next botanist who has to consider generic limits in the Piperaceae. He managed to "publish" in this short paragraph the new generic names (each with one new binomial) *Carpupica*, *Methysticum*, *Churumaya*, and *Betela*, all as "probable" or at least potential new genera, but with not the slightest attempt to characterize these suggested new groups. Yet from the binomials cited the identity of each of these four new genera is evident even with the entire absence of descriptive data. I dissent from Moore's conclusion, Occ. Pap. Bishop Mus. 10 (19): 1-5. 1934, in his discussion of the botanical name of the Polynesian *ava*, that: "One can only say that the Rafinesque name [*Methysticum esculentum* Raf.] is a *nomen nudum* and that its application is very uncertain if at all intelligible." Clearly what Rafinesque had in mind was *Piper methysticum* Forst. f. (or possibly *P. methysticum* Linn. f.). In all of Rafinesque's voluminous publications there are no references to Roxburgh's *Flora Indica*, this being evidence that he had no knowledge of that work; hence the different *Piper methysticum* Roxb. (1820), non Forst. f. (1786), nec Linn. f. (1781), has no bearing on the case. As another example of most casual publication of new generic names is the following passage from the *Flora Telluriana* 4: 49. 1836 [1838] sub *Acroanthes* Raf.

"The uniflore *Disa* like *D. grandiflora* are the type of the Genus, *D. cornuta* and other spiked sp. must form my G. *Gamaria*—*Eria* and *Stenia* of Lindley worst of his names are my *Exeria* [he forgot that six years earlier he had published *Erioxantha* Raf. as a new name for *Eria*] and *Stenopolen*—His *Sophronia* or *Sophronitis*, name preoccupied is my *Lophoglotis* &c. His *Georchis* is inadmissible, unless *Orchis* be abolished, it is my *Geobina*. His *Mon-Acanthus* is my *Cuculina* &c."

In this short paragraph Rafinesque actually published seven new generic names, and there was no valid reason for making any substitution other than Rafinesque's invalid argument that, as originally proposed, the names that he would so casually displace did not agree with his own set of rules. Such work is utterly indefensible and has no place in descriptive botany; and yet Rafinesque is perhaps no more to be condemned

for his strange practices than are some of his predecessors, contemporaries, and successors.

NON-PUBLICATION OF CERTAIN NAMES

Here are examples of non-transfer of specific names from Rafinesque's *Sylva Telluriana* 24. 1838. He proposed and described certain new genera as segregates from the older *Genista* Linn. and *Cytisus* Linn. in *Avornela* Raf. and *Eutline* Raf. Following the technical generic descriptions he listed the species he intended to transfer to *Avornela* thus: "This as a genus or sub-genus must contain many sp. of *Genista* and *Cytisus*, such as *G. canariensis*, *candicans*, *linifolia* &c." For *Eutline* the statement is: "Types *Genista germanica*, *sagittalis*, *decumbens*." Nowhere did he actually publish new binomials under *Avornela* or *Eutline*. Rafinesque himself assumed that in so entering older binomials under new generic names he was actually publishing these as new names, and many of his successors have accepted this as publication. A classical example in this field is Robert Brown's *Prodromus florae Novae Hollandiae* (1810) which actually contains many hundreds of entries, corresponding to those cited under *Avornela* and *Eutline* which later authors have accepted as valid transfers; and they were entered in *Index Kewensis* as published with R. Brown as the authority. In many cases the *Index Kewensis* entry is the first one where the new binomial actually appears, but in perhaps as many, or even more numerous, other cases one must spend much time and effort in searching the post-Brunonian literature to find the first entry where the actual transfer was made. Clearly it would be much simpler in such a case to accept the *Prodromus* entry as effective publication, but the rules eliminate this.

As an example of a new Rafinesque generic name where he did actually effect valid transfers of the specific names may be cited his treatments of *Laburnum* Raf. and *Diaxulon* Raf. on the same page with the two genera cited above. Here, following the technical descriptions, the entries are: "Type *Laburnum pendulum* Raf. or *Cytisus laburnum* auct." and "Types *D. argenteum prolifer* &c. or *Cytisus* of auct."

Rafinesque himself, like many other botanists, assumed that when in listing binomials under their original generic names, when he segregated a certain group and proposed a new generic name for it, that he actually transferred the listed species to the new name. An example of this is: "*Crocolos* cal. camp. membranaceo trilobo. *Salvia aurea colorata*, *pomifera*, *calicina*" *Fl. Tellur.* 3: 93. 1836 [1837]. Three years later, *Aut. Bot.* 122. 1840, he listed one of these species, with a reference to the *Flora Telluriana* as "*Crocolos pomifera* Raf. *Fl. Tel.* 2[3] p. 93. *Salv. do L—Creta, Syria*." Clearly he did not publish any valid transfers in 1837 as listed in *Index Kewensis*, for all that he did then was to indicate that certain species of *Salvia* belonged in his new genus *Crocolos*; three years later he did transfer one specific name, and for *Crocolos pomifera* (Linn.) Raf. the *Autikon Botanikon* reference is accepted. The other

three species listed were not actually transferred until the names appeared under *Crocolos* in *Index Kewensis* 1893; these and some hundreds of similar cases are entered in this index as "Raf. ex Jacks*. Ind. Kew." for as far as the published record goes this is the first place that the specific names appear under *Crocolos*.

SOURCES OF RAFINESQUE'S NAMES

Rafinesque's precocious mind, as expressed by G. Brown Goode in 1895, wandered at will over the entire field of books and nature. It is clear that he had a very wide knowledge of the more important publications on natural history and an unusual command of modern and of classical languages, as he somewhat boastfully states, *Life of Travels* 8-9, 1836:

"I never was in a regular college, nor lost my time on dead languages; but I spent it in learning alone and by mere reading ten times more than is taught in schools. I have undertaken to learn the Latin and Greek, as well as Hebrew, Sanskrit, Chinese and fifty other languages, as I felt the need or the inclination to study them."

Naturally many of Rafinesque's new generic names were derived from classical sources, quite as most other botanists have operated in attempting to devise descriptive names. Many were selected from here and there in pre-Linnaean literature of which Rafinesque manifestly had a wide working knowledge; others were taken at second hand (modified or unmodified) from Adanson's *Familles des plantes* (1763) which he specifically mentions as an excellent source book for names. He had no inhibitions as witnessed by his own statement, *Fl. Tellur.* 1: 16-17. 1836 [1838]; "I am never at a loss for names, as Linnaeus was when he framed *Quisqualis* [=which and of what kind]; I could readily supply 20,000, all good." He did not always adhere to the strictly classical forms and not infrequently modified words by eliminating syllables in order to shorten or otherwise to improve proposed names. This practice is, at times, somewhat misleading to those who are intrigued with meanings, a case in point being *Diodeilis* Raf., as explained by him, "abridged from *Diodontocheilis*!"

ARBITRARY NAME CHANGES

He proposed his own scheme of classification of the major groups of both plants and animals and devised his own rules of nomenclature (see p. 9), neither of which was ever accepted by other naturalists. A considerable number of his new names may be explained by the rules that he originated and applied. If generic names were too short he lengthened them, some examples being *Anthogayas* Raf. for *Gayas* Linn.; *Bletiana* Raf. for *Bletia* B. Br.; *Characias* Raf. for *Chara* Linn.; *Callaria* Raf. and *Callaion* Raf. for *Calla* Linn.; *Chlorita* Raf. and *Chloryta* Raf. for *Chlora* Linn.; *Cressaria* Raf. for *Cressa* Linn.; *Colaria* Raf. for *Cola* Schott; *Cryptina* Raf., *Cryptella* Raf. and *Cryptaria* Raf. for *Crypta* Nutt.; *Doniana* Raf. for *Donia* R. Br.; *Elateum*

Raf. for *Elate* Linn.; *Erioxantha* Raf. and *Exeria* Raf. for *Eria* Lindl.; *Eucodon* Raf. for *Codon* Linn.; *Globbaria* Raf. for *Globba* Linn.; *Ingaria* Raf. for *Inga* Willd.; *Leeania* Raf. for *Leea* Linn.; *Leucasia* Raf. for *Leucas* R. Br.; *Lemapteris* Raf., *Phyllitis* Raf., *Pteridium* Raf., *Pterilis* Raf., and *Peripteris* Raf. for *Pteris* Linn.; *Lotulus* Raf. for *Lotus* Linn.; *Mayzea* Raf. for *Zea* Linn.; *Nostocus* Raf. for *Nostoc* Linn.; *Poagris* Raf. for *Poa* Linn.; *Theaphyla* Raf. for *Thea* Linn.; and *Tuberium* Raf. for *Tuber* Pers.

If names were too long they were shortened, such as *Amagris* Raf. to replace *Calamagrostis* Roth; *Lifutia* Raf. to replace *Lightfootia* l'Hérit; *Ludovica* Raf. to replace *Carludovica* Ruiz & Pavon; *Tabernaria* Raf. to replace *Tabernaemontana* Linn.; and *Tarpheta* Raf. to replace *Stachytarpheta* Vahl. He objected to what he called mongrel names, half Greek and half Latin (some of our very best classical scholars have at times been guilty of such solecisms in botany), and so abandoned *Vincetoxicum* (Rupp.) Moench for *Gonolobus* Michx., and proposed *Scyphopteris* Raf. to replace *Scyphofili* Thouars. There was no warrant for any of these changes, not one of the new names was ever accepted by any other botanist, and there is no reason why any of them should be. Rafinesque made the changes to bring the names within the provisions as set forth in his own rules of nomenclature.

PROVISIONAL OR ALTERNATIVE NAMES

Rafinesque was one of the earliest botanists to propose any considerable number of provisional or alternative names, such ill-begotten names now being eliminated under the provisions of the International Code of Botanical Nomenclature. Thus *Cryptina* Raf., *Cryptella* Raf., and *Cryptaria* Raf., all published in a single line, were provisional new names for *Crypta* Nutt., and *Washingtonia* Raf., *Osmorhiza* Raf., and *Gonantherus* Raf., also published in a single line, with no descriptions, were provisional names for which Rafinesque later selected the name *Osmorhiza*. In publishing the new generic name *Quamasia* he states:

"If *Quamasia* [Raf.] is deemed a name too barbarous I offer two substitutes, *Lemotris* and *Bulbedulis*!" *Fl. Tellur.* 2: 25-36. 1836 [1837]. See also the strange case of the three different genera that he named *Rafinesquia* in honor of himself, where in each case he published alternative names as discussed below. Some scores of new generic names proposed by Rafinesque fall in this category, not one of which is valid. As to binomials note his casual treatment of *Floerkea proserpinacoides* Willd. (*F. uliginosa* Muhl., *F. lacustris* Pers.), *Am. Jour. Sci.* 1: 375. 1819. In objecting to the length of Willdenow's specific name and even although two other names had been published for it, he says: "even the name *uliginosa* is liable to some slight objection; and did I think myself permitted to coin a new name, while so many have been proposed already, I should have called it either *F. tenella*, or *F. flaccida*, or *F. olitoria*," again

three new names for a single entity, in a single line, not one of which was necessary or desirable.

GENERIC NAMES DEDICATED TO HIMSELF

Strangely he published three different genera dedicated to himself in 1837 and 1838, in *Rafinesquia* Raf. (Leguminosae) with the alternative name *Flundula* Raf., stating that it: "is one of those I propose to dedicate to myself, as Linneus did for Linnea [not true, *Linnaea* was originated by Gronovius], but I propose a second substitute, in case there is a previous *Rafinesquia*." *Rafinesquia* Raf. (Labiateae) with the alternative name *Diodeilis* Raf. was proposed with merely the statement: "here is another *Rafinesquia* for a fine shrub mistaken by all authors, and forced into 3 Genera! Cunila, Melissa, Gardoquia! if not approved I add a 5th name! [*Diodeilis* Raf.]," and a year later regarding this one: "it is one of the Genera to which I give my own name, and if any one cavils at it I offer a second [*Diodeilis*] abridged from *Diodontocheilis*! that I may not lose the merit of my sagacity in ascertaining this Genus." The third *Rafinesquia* Raf. was a representative of the Bignoniaceae: "another beautiful G. that I dedicated to myself if the *Rafinesquia* of New Flora 600 is not deemed good enough, and I add a second name [*Etorloba*] meaning *heart pod*, if any one cavils at this again." Apparently some of his colleagues cavilled at Rafinesque's preposterous action in no uncertain manner. One gains the impression that Rafinesque was, at times, exceedingly naive. Yet the forgiving botanists have actually conserved the synantheraceous generic name *Rafinesquia* Nutt. (1841) against *Nemoseris* Greene (1891) in spite of the preoccupation of the former name by the three that Rafinesque proposed.

CORRECTIONS OF EARLIER NAMES

He noted various errors made by his predecessors in misspelling generic names dedicated to individuals and accordingly for *Gaultheria* Linn., dedicated to Hughes Gaultier (Gaultier, Gauthier, Gautier), he proposed new names in *Gaultiera* Raf., *Gautiera* Raf., and *Guateria* Raf.; and for *Marsilea* Linn. the correction was made to *Marsiglia* Raf. in 1837 and for the same reason that Trevisan independently made the same change in 1877, the family name being Marsigli. Vollman in 1914 accepted *Amelancus* F. Muell. to replace *Amelanchier* Linn. in ignorance of the fact that Rafinesque in 1834 had proposed the new name *Amelanchus*, and in 1837 *Amelancus*, for the reason that *Amelanchier* Medic. was not classical, being merely the French vernacular name for a European species of the genus. One wonders how far modern botanists might be willing to go, in following a strictly classical line, in view of the fact that we unhesitatingly accept hundreds of generic names, some unaltered, some slightly changed, based on the vernacular names in use here and there outside of Europe such as *Abuta*, *Bombax*, *Camassia*, *Canavali* or *Canavalia*, *Caragana*, *Catalpa*, *Ceiba*, *Durio*, *Gaudua*, *Guaiacum*, *Kalanchoe*, *Kibara*, *Kibatalia*, *Pandanus*,

Sassafras, *Sesban* or *Sesbania*, *Tangaraca*, *Tibouchina*, and *Tsuga*, to mention only a few of them.

Again if names were uncouth, they were improved in such cases as *Kranikofa* Raf., *Kranikovia* Raf., *Kraschenikofa* Raf., and *Krasnikovia* Raf. (plus also the minor variants *Krascheninikofa* Raf. and *Kraschenikofa* Raf.) for *Krascheninikovia* Gueldenst. Rafinesque manifestly considered himself thoroughly competent to correct not only the work of his contemporaries, but of his predecessors as well.

DEPENDENCE ON MEMORY

Whoever will take the trouble to scan the entries in this index will at once observe that Rafinesque depended too much on his rather phenomenal memory, not infrequently proposing a new name for this or that genus, forgetting that he had previously proposed a different name for the same group, and for the same reason or reasons, earlier in his career. Examples are the *Kranikofa-Krasnikovia*, *Lemapteris-Pterilis*, *Erioxantha-Exeria*, *Callaria-Callaion*, cases mentioned above, to say nothing of such extraordinary ones as *Polanisia-Podanisia-Polanina-Polanysia-Potamisia* (*Polanisia* Raf.), and the *Hicarya-Hicoria-Hicorias-Hicorius-Hicorya-Scoria-Scorias* (*Carya* Nutt.) cases, with, in the last group, the additional sectional names *Drimocaria*, *Glycaria*, *Hexacaria*, and *Pacania*.

TYPOGRAPHICAL ERRORS

In another category are such variants as *Ioxylon* Raf., *Joxylon* Raf., and *Xoxylon* Raf. = *Toxylon* Raf.; *Iraupalos* Raf. for *Traupalos* Raf.; *Jangaraca* Raf. for *Tangaraca* Adans.; *Jontanea* Raf. for *Tontanea* Aubl.; *Irillium* Raf. and *Jrillium* Raf. for *Trillium* Linn.; *Spogopsis* Raf. and *Sponcopsis* Raf. for *Ipomopsis* Michx.; *Trasera* Raf. for *Frasera* Walt.; *Tuchsia* Raf. for *Fuchsia* Linn.; *Sivetes* Raf. for *Isoetes* Linn.; and *Tsotria* Raf. for *Isotria* Raf. The changes here were accidental, not deliberate, and in many cases were due to the fact (not always) that Rafinesque had no opportunity of proof-reading the papers in which they appear. They are typographical errors and as such should have no standing; and yet it is rather amusing to note Dr. Greene's contention that the misspelled *Ioxylon* Raf. must be accepted in preference to *Toxylon* Raf. on the basis of strict priority. In spite of Benjamin Silliman's statement, *Am. Jour. Sci.* 40: 237. 1841, to the effect that Rafinesque's manuscripts were "prepared with his beautiful and exact chirography, and in the neatest form of scientific papers," there is plenty of evidence that there was trouble, as far as compositors, proof readers, and editors were concerned as between the capital letters I, J, and T in Rafinesque's copy.

DELIBERATE ORTHOGRAPHIC CHANGES

There is another fairly large category of new Rafinesque names due to his elimination of the diphthong æ it usually becoming e in specific names, and his aver-

sion to the use of double letters such as "ll," where we note a rather extraordinarily long list of both generic and specific names, deliberately published, as for example *Theaphylla* Raf., recorded in indices as *Theaphylla*. If he had to consider a species proposed by an earlier author as *microphylla*, *macrophylla*, etc., the names appear in Rafinesque's works as *microphylla* and *macrophylla*. It does seem to be rather pedantic to list these minor variants; and perhaps the listings should have been confined to those names where only the initial letter was involved as *aetnensis* versus *etnensis*, *aegyptiaca* versus *egyptiaca*, etc. In general, however, the minor variants due to Rafinesque's orthographic idiosyncrasies have been listed as they were detected.

NOMINA NUDA

There is also a fairly large total of *nomina nuda* for both generic and specific names (in binomials alone about 825 cases) and little is gained in even listing these although it has long been current practice to include such names in standard indices. As to generic names Rafinesque published a considerable number of new ones with no documentation whatever, there being no indication of the basis of these. Yet in a high percentage of cases it is possible definitely to place many of them, examples being *Figonina* Raf., 1815 (certainly from *Liriodendron figo* Lour., 1790) = *Michelia* Linn.; *Sampaca* Raf., 1816 (certainly from *Sampacca* Rumph., 1741) = *Michelia* Linn.; *Cananga* Raf., 1815 (certainly from *Cananga* Rumph., 1741) = *Cananga* Hook. f. & Th., 1855 (*Canangium* Baill.); *Naruma* Raf. 1815 (certainly from *Narum* Adans., 1763, *Narum-Panell* Rheede, 1679) = *Uvaria* Linn.; *Funisaria* Raf., 1815 (certainly from *Funis musaria* Rumph., 1747) = *Uvaria* Linn.; *Lussaria* Raf., 1815 (certainly from *Lussa radja* Rumph., 1755) = *Brucea* J. S. Mill.; and *Cherimolia* Raf., 1815, with perhaps *Ambotia* Raf., 1815, and *Atnara* Raf., 1815 = *Annona* Linn.

There are, however, other *nomina nuda* in this class that I have not been able to place even to the family, such as *Adipson* Raf., *Hemiarinum* Raf., *Hepatitis* Raf., *Hexamium* Raf., *Sclerotris* Raf., and *Xiphodendron* Raf. In other cases the major group is clear, such as *Xeregathis* Raf. (Compositae), and *Smirius* Raf. (Rubiaceae). In some cases individuals more widely familiar than I am with the pre-Linnaean literature of botany may be able to suggest reductions, for in the cases cited above, where I have made definite reductions of generic names published as absolute *nomina nuda*, most of them are traceable in the older literature appertaining to the Indo-Malaysian region with which I am reasonably familiar.

The vast majority of Rafinesque's new varieties are strictly *nomina nuda*, as noted above (p. 28). Were Rafinesque's herbarium extant undoubtedly many of these could be reduced provided it was considered expedient to attempt this, but without specimens nothing can be done with them. Here, as noted elsewhere, one may legitimately question the wisdom of even listing

nomina nuda. This same statement also applies to the rather numerous *nomina nuda* that appear as binomials.

SOURCES OF RAFINESQUE'S DATA

Rafinesque compiled his data for publication from a very wide variety of sources. While it seems to be clear that he did acquire personal copies of a great many standard floristic works, his attention was by no means confined to these. Even before he returned to Philadelphia from Lexington, Kentucky, in 1826, he claimed to have about 1000 volumes in his library. In Philadelphia he had access to such serials as Curtis's *Botanical Magazine*, Lindley's *Botanical Register*, and to such extensive works as Rumphius's *Herbarium Amboinense*, Rheede's *Hortus Malabaricus*, Ruiz and Pavon's *Flora Peruviana*, and numerous other standard works in the institutional libraries of that city; and from these he copied data that intrigued him into his series of note books, from which at later dates he extracted data for publication. His method of compiling data has been briefly discussed by Pennell.²⁸ He states:

"Apparently whenever he [Rafinesque] detected anything new, he entered his brief description of it in a manuscript book, where they follow a sequence regardless of actual classification. We have three such books, with such entries: 'Neocloris' begun in New York in 1817 and continued to 1825; 'Neophyton' in three parts, all dated 1830; and a 'Mantissa', in three parts, dated 1832 to —. Apparently in preparing a text for publication, he copied these descriptions into works that he later printed. It is always interesting to happen upon an author's source-book."

RAFINESQUE'S HERBARIUM

Looking back to the early decades of the past century the modern systematic botanist is apt to be shocked at the casual manner in which herbaria were then treated. When the early American botanists commenced to assemble herbarium material this was strictly on the basis of private collections, there being, in the colonial period and in the early years of national status of the United States, no institutional interest in this matter. Many of these private herbaria were not preserved although here and there some came into the possession of institutions and were thus perpetuated, such as the Muhlenberg herbarium, the Short herbarium, the Schweintz herbarium, and others in Philadelphia, and the Elliott herbarium in Charleston. Various collections made in the colonial period, such as those of Clayton and Walter, were fortunately taken to Great Britain or to Europe where they were carefully preserved, as were the collections made by such early explorers as Kalm, Michaux, and others. The first important institutional herbarium in the United States was established by the Academy of Natural Sciences of Philadelphia, antedated by certain private herbaria that were presented to the American Philosophical Society and later transferred to the Academy of Natural Sciences. Naturally to Philadelphia gravitated a certain number of private

²⁸ Pennell, F. P. The Life and Work of Rafinesque, *Transylvania College. Bull.* 15(7): 66. 1942.

herbaria that had been built up by interested citizens, for that city was the first important botanical center in the United States. Even Amos Eaton, author of our first popular *Manual of Botany*, of which eight editions were issued between the years 1817 and 1840, had little concept of the value of herbarium material, and left only a small, most fragmentary, and a practically valueless collection which is now at Yale University.²⁹ With us it was not until the era of John Torrey and Asa Gray in New York (the latter after 1841 in Cambridge) that herbaria became standardized and the importance of carefully preserving reference material utilized in characterizing new genera and new species was more generally recognized.

No matter what Rafinesque's faults were, and they were many, he does deserve the credit for realizing the importance of assembling herbarium specimens for study purposes in spite of the fact that we must admit that he used very poor judgment in drawing conclusions on the basis of a study of such material. At a time when most of the few amateur and professional botanists in the country showed very little interest in, or knowledge of, the importance of preserving such study material, Rafinesque, on the basis of his own limited resources, continued to build up what was perhaps, for the time, the largest herbarium in North America. At the time of his death in 1840, it must have contained at least 50,000 specimens, and was actually valued by Rafinesque at \$6,000.00.

No matter how poorly Rafinesque's specimens were prepared, no matter how badly the material had been damaged by herbarium beetles and other pests, this collection, enormously rich in holotypes, deserved a better fate than it received at the hands of Elias Durand, a botanist who was personally acquainted with Rafinesque. As indicated below, Durand on acquiring the herbarium several years after Rafinesque's death, discarded most of the Rafinesque specimens, on which that erratic genius had based scores of new genera and many hundreds of new species of plants, as utterly worthless. After all a holotype is a holotype, no matter if the species which was based upon the specimen had an earlier name or names, no matter how poorly the specimen had been prepared.

Rafinesque states that he commenced to build up his herbarium in 1795; he was then only twelve years old. Wherever he resided, in southern France and in Italy, previous to his making his first trip to Philadelphia in 1802, and in Sicily between the years 1805 and 1815, he assiduously collected botanical material as he had the opportunity. Naturally he continued this activity after his return to the United States in 1815.

Returning to Palermo, Sicily, in 1805, he continued to reside there until 1815, visiting various parts of the island (he says that he travelled 1600 miles in Sicily), even ascending Mount Etna in connection with his

botanical explorations. In this period he commenced exchanging duplicate specimens of his Sicilian and American plants with various other botanists, a practice that was continued more or less throughout his life. Thus it is that we may expect to find certain historically important Rafinesque specimens in such herbaria as those of Raddi, DeCandolle, Moricand, Arnott, Hooker, Bastard, Haworth, Savi, Agardh, Bory, Schreber, Bivona, Swainson, and perhaps a few others, in so far as these formerly private herbaria are still extant as parts of institutional collections, as well as in institutional herbaria in Paris, Geneva, and London. The above are some of the individuals and botanical centers which Rafinesque lists as recipients of specimens from his early collections. In the United States, the New York Botanical Garden, which possesses the Torrey herbarium, for Torrey carefully preserved most of the specimens Rafinesque sent to him, and the Academy of Natural Sciences of Philadelphia are the only American institutions that possess any considerable number of Rafinesque specimens. Mr. C. A. Weatherby, *Rhodora* 42: 96. 1940, expresses the opinion that the best set of Rafinesque's plants in existence is at Geneva (DeCandolle herbarium).

Most of what Rafinesque had assembled up to 1815, other than such duplicates as he had distributed here and there, was lost in his disastrous shipwreck on Race Rocks, near Fisher's Island, Long Island Sound, on his return voyage to the United States, November 2, 1815, as detailed by him in his *Life of Travels* 48, 1836. He later stated, *Atl. Jour.* 1: 167. 1833; *Herb. Raf.* 3. 1833, that this loss covered the accumulations of twenty years including his Sicilian collection with 2000 species represented by 20,000 specimens. It naturally included his North American collections assembled in the years 1802 to 1804, including the holotypes of his various new species, based on these collections. These early collections were made in Pennsylvania, New Jersey, Delaware, Maryland, District of Columbia, and Virginia. In 1816 he commenced to rebuild his herbarium and to this he devoted a great deal of time, money and energy during the succeeding twenty-four years.

In accordance with his own manuscript account of January 1, 1821, now preserved among his papers in Philadelphia, his herbarium then contained 12,745 species represented by 37,740 specimens, the record of five years only. In the inventory the collection is broken down to the numbers of species and of specimens from various parts of the world as follows:

	Species	Specimens
North America	5,000	23,050
South America	350	450
Europe	4,375	11,170
Africa	2,150	2,300
Asia	870	970

In this inventory he lists the specific regions from which he had received material as Egypt, Nubia, Barbary, South Africa, Madeira, Azores, Canary Islands, Cape Verde Islands, Madagascar, Syria, Palestine,

²⁹ Merrill, E. D. & Reeder, J. H. New Plant Names Published by Amos Eaton Between the Years 1817 and 1840. *Bartonia* 24: 26-79. 1947.

Persia, Anatolia, East Indies, China, Japan, Siberia, Polynesia, and Australia; and in Europe, from England, France, Italy, Sicily, Switzerland, Germany, Poland, Russia, Holland, Denmark, Greece, Turkey, Crete, Spain, and Portugal. It may be that a part of this foreign material was that which he left in Palermo on his departure for Philadelphia in 1815, for he mentions in his *Life of Travels* 45. 1836, that: "My Herbal was so large that I left a part of it." That he was rather proud of his accomplishment is indicated by the following quotation from an article written in Lexington, Kentucky, and published in the *Kentucky Gazette*, vol. 36, No. 14, p. 2, Apr. 4, 1822:

"My rich herbarium has been increased with 3,000 foreign specimens, and this is, I believe, the first instance of such valuable collections brought to the western country, where I hope that it may become the foundation of the most extensive botanical collection in the United States, if it is not so already."

It is rather interesting to note the sources of material that he received in exchange, for represented were collections from DeCandolle, Moricand, Trattinnick, Sieber, Bory, Hooker, Haworth, Swainson, Roemer, Schultze [Schultes?], Sheperd, Lesueur, Bivona, Dor [Don], Carr, and Raddi. In addition to minor collections received from various amateurs in North America, he lists the names of those from which he received specimens, and some of these collections unquestionably contained historically important material in the form of isotypes. Among the names are those of Torrey, Short, Miller, Mease, Ward, Crockett, Hart, MacWilliams, Brereton, Brickell, Mitchell, Eddy, Crawford, Locke, Bradbury, Lewis, Beck, Elliott, Conrad, Halsey, Eaton, Muhlenberg, Schweinitz, Gaissen, Ridgely, Hingston, Steinhauer, Booth, Macarron, Knevels, Schultz, Waterhouse, Adlum, Forrest, Durand, Walton, and Limner. This is a rather comprehensive list of those American botanists and collectors who were active in the early decades of the last century. These data clearly indicate Rafinesque's wide range of botanical interest and his extensive botanical correspondence.

In his *First Catalogue of the Botanical Garden of Transylvania University* 6. 1824, his estimate of the size of his herbarium was about 10,000 species and 40,000 specimens, as opposed to 12,745 species and 37,740 specimens in his census of 1821. It is interesting to compare his next later estimate, *Herb. Raf.* 3-10. 1833, *Atl. Jour.* 1: 167-170. 1833; these two separate accounts of 1833 are practically identical.

"In 1815, I lost by my shipwreck, all my early herbals of Europe and America, made during nearly 20 years, among which a superb herbal of Sicily with 2000 species and 20,000 specimens. In 1816 I began all over again in N. America, and have collected in 18 states, and Canada during 16 years, have received besides, plants from all the States and Territories, from Missouri, Oregon and Texas to Florida, explored our botanical gardens and public herbals, and exchanged with European botanists."

He explained that his own herbarium then (1833) contained about 4200 North American species, 5000 varieties, represented by 25,000 specimens, nine tenths

of which had been collected by himself; and that he had sold or exchanged 10,000 specimens. His foreign herbarium then contained about 3000 species with 8000 specimens "from Europe, Asia, Africa, Polynesia, South America and Mexico." Incidentally he mentions that in his field work he had travelled 15,000 miles "of which 5,000 as a pedestrian botanist over N. America." He also claimed that he then had "1,000 N.G. or N.Sp. or very rare plants, to show or sell, already published or to appear in my supplemental Flora."

For convenience he divided his North American collections into five main herbaria, Alleghany and Atlantic plants, 2000 species; Florida herbarium (but including material from the pine barrens of New Jersey and from the Carolinas), 1500 species; Louisiana herbarium (but including plants of the western regions, Mississippi and Missouri valleys from Louisiana and Texas to Illinois and Missouri), about 2000 species; Oregon herbarium, including specimens from the "Origion mts." [Rocky Mountains] from Upper Missouri [Dakota] to the N.W. coast," 700 species; and a Canadian or boreal herbarium (Arctic regions, Canada, Labrador, Greenland, Siberia), 1200 species.

In addition to these five regular herbaria he mentioned twelve special ones such as new genera and species of North American grapes (*Vitis*), trees and shrubs of North America, medicinal plants, etc. Further, he had kept together as special collections representatives of various genera in which he had described numerous new species such as *Pyrola* (15) *Prunus* (32), *Tradescantia* (15), *Commelina* (10), *Unisema* (9), *Dodecatheon* (8), *Viola* (40), *Vitis* (36), *Rosa* (24), *Viburnum* (22), *Lobelia* (8), *Heuchera* (9), *Trillium* (25), *Mesadenia* (10), *Gentiana* (20), *Clintonia* (7), *Pavia* (7), *Anychia* (10), *Onoclea* (5), *Iris* (12), and *Samolus* (5); and yet this material that a modern botanist would consider to be priceless, because most of the specimens were actual types, was ruthlessly discarded by Durand as utterly worthless. As a side light on Rafinesque's strange character the following statement seems to be worthy of reproduction:

"I offer to sell, buy or exchange such plants or any other. My price for my N.G. and N.Sp. is \$10. per hundred, the same for gigantic plants. Other American plants at \$5. labelled, or \$4. unlabelled, per 100. Rare plants, at \$6. to \$7. Small plants in portable herbals at \$3. to \$4. per 100. These prices must be paid here on delivery.

"Of about 225 N.Sp. of exceedingly rare plants, of which I shall publish a list; I have only one specimen left, which I hold at 20 cents each, and even some at 25 cents, and will not sell unless I know that they shall be deposited in a public or well-known herbal, where they may be seen."

This apparently was the segregation of the herbarium at the time it came into the possession of Elias Durand and which caused him to comment so caustically on certain collections such as the rare specimens at 25 cents each, and the *Dodecatheon* material as quoted below.

There is little evidence to indicate that Rafinesque ever succeeded in disposing of much of his botanical material by sale, even as there is little evidence that the sales of his privately published technical volumes were

even moderately successful. From a purely historical standpoint it is indeed unfortunate that some one of his contemporaries did not purchase the really important sets of specimens that Rafinesque offered; for had this been done by an individual of understanding, then the chances are that very many of Rafinesque's types would have been preserved, and would thus be available to modern botanists for study when it becomes either important or desirable that the status of a Rafinesque genus or species be determined accurately.

Because of Rafinesque's notoriously careless methods his herbarium must have suffered tremendous damage from the ravages of the herbarium beetle and other pests at various times. Thus when he left Lexington, Kentucky, in 1826, to return to Philadelphia, his herbarium remained long in storage with the transportation company, apparently for a period of about four years, due to the owner's inability to pay the transportation charges. Pennell, *Bartonia* 23: 45. 1945, reproduced a part of a letter from Rafinesque to Torrey, dated Jan. 2, 1832, in which he states: "I find upon an average one tenth of the plants lost or spoiled. . . . The loss will amount to at least 4,000 specimens; but I shall have 36,000 left, large and small." The next period of really serious damage was while the herbarium was in storage for several years in a stable loft in Philadelphia following Rafinesque's death, for to the ravages of the herbarium beetle was added the destructive activities of a colony of rats as described by Durand; see below.

After the ravages incident to several years' storage in Philadelphia from 1827 to the end of 1831, there were, according to Rafinesque, 36,000 specimens in the herbarium, but for the next seven years Rafinesque was to continue to add to his collection. The most important accession was the Collins herbarium, and this must have been a large one; and it was known to have been a very carefully prepared one—see the quotation from Elias Durand below. In his *New Flora of North America* 1: 70. 1836, Rafinesque states that he was "in hopes of obtaining the Herbarium of my late friend Z. Collins, which contains many new and rare plants collected by himself besides Kin, Boykin, Baldwin, Nuttall[1], Elliott, Ware, Leconte, Schweinitz, &c from Florida and Arkansas to Labrador." Slightly later, *op. cit.* 2: 12. 1836 [1837] he adds: "That [the herbarium] of Collins was very valuable, and is now added to mine." Mr. Collins died June 12, 1831. The rather disgraceful episode of Rafinesque's suit against the Collins estate is discussed in some detail by Pennell, *Transylv. College Bull.* 15 (7): 43-45. 1942. It was through settlement of this suit that Rafinesque acquired the Collins herbarium not later than 1836, and probably somewhat earlier than that date. Following the statement regarding his acquisition of the Collins collection he estimated that his herbarium then contained 10,000 species and 50,000 specimens. His last estimate of the value of the herbarium was \$6,000.00, which considering the condition of the material was probably an exorbitant price; yet Elias Durand acquired it by paying a storage bill amounting to \$45.00.

Up to very recently it was believed that Elias Durand, who acquired the Rafinesque herbarium, purchased it in order to assist that impecunious individual during his last illness in 1840, and Durand has had the credit of being, in this instance, a charitable individual. Gradually the truth emerges. One statement by Durand regarding his acquirement of the Rafinesque herbarium was written in 1865, the following passage being quoted from his own explanation regarding his herbarium, from Mrs. Agnes Chase's account of the Durand herbarium, *Bartonia* 17: 40-45. 1935 (p. 42):

"In 1833 or 4, I became acquainted with Mr. Nuttall, from whom I purchased a set of his Arkansas plants. * * * It is also about that time that I purchased the large herbarium of Rafinesque: I did not care much for his own plants. I knew that his specimens were miserable, but he had come to the possession of Mr. Collins' herbarium, had corresponded with Drs. Riddell and Carpenter of Louisiana, and from those sources I expected a good harvest of botanical matter. My hopes were not frustrated. Mr. Collins' collection was to me a most valuable acquisition. He had been an excellent botanist, and on intimate terms and in correspondence with the leading botanists of the time, Elliott, Muhlenberg, Schweinitz, Bigelow, Leavenworth, Blodgett, &c. &c. and especially with Mr. Baldwin and other young and enthusiastic botanists, whom he patronized [i.e., subsidized]. In his herbarium I found the largest collection of southern plants perhaps extant at that time. My herbarium began at this time to be interesting and went on increasing every year."

The date, "about that time" (1833-34) of Durand's acquisition of the Rafinesque herbarium, is manifestly wrong. Rafinesque probably did not acquire the Collins herbarium before 1835 or 1836. Pennell placed the date of Durand's acquisition of the Rafinesque herbarium as 1843 or 1844, a decade later than Durand's statement would infer; yet there may be some significance in the statement that the Darlington herbarium was greatly increased before March 19, 1842, by the arrival of 1500 specimens from Elias Durand. In listing the occurrence of 50 or 60 specimens from the Rafinesque herbarium (received from E. Durand), Prof. Gordon⁸⁰ states: "During the preceding year [1841] it has been greatly increased through the arrival of 1500 specimens from Elias Durand. . . ." Among these are certain of Rafinesque's *Autikon Botanikon* specimens. The actual date, whether it be 1841 or somewhat later, is of no particular importance. It is, however, now clearly established that Durand did not acquire the Rafinesque herbarium until after the latter's death in 1840. The acquisition of certain of Rafinesque's *Autikon Botanikon* specimens by Darlington in 1841 would seem to indicate that this was the year that Durand acquired the herbarium.

In 1945 additional data became available through the publication of a letter from Elias Durand to Charles W. Short, dated June 4, 1856. The following passages are quoted from this letter as published by Pennell:⁸¹

⁸⁰ Gordon, R. B. The "Darlington Herbarium" at West Chester. *Bartonia* 22: 6-9. 1943.

⁸¹ Pennell, F. P. How Durand Acquired Rafinesque's Herbarium. *Bartonia* 23: 43-46. 1945.

"Yes! My dear Sir, I bought Rafinesque[']s] herbarium—or in better words, it was forced upon me by his executor, Dr. Mease, who had no money of the deceased in hands to pay 45 Dollars storage. 45 Dollars . . . What poor Rafinesque estimated at 6000!

"But it was truly a dunghill, from the circumstance that it had remained years in stable garret, where a numerous colony of rats found it a convenient hiding and breeding [breeding] place. It required indeed a botanical zeal equal to mine to consent [to] transferring to a decent house 6 cart-loads of that prodigious mass of corruption * * * Not being fit to place in a room, I removed it to an obscure cellar, where, for a whole winter, I was occupied, by candle light, to separate the good from the rotten.

"Rafinesque's own specimens were trash, incomplete, good for nothing; He was the worst collector I ever knew; But I found in Collins' herbarium, in your own and Dr. Buckley's plants, enough to repay my forty-five Dollars, my soap & cologne water.

"There I saw the wonders he boasted of—The series of what he called his very rare specimens at 25 cents apiece, and a very small piece too; a disfigured flower and a few leaves, not spreading but more or less reflexed and rumpled; as, for instance, his 8 or 9 species of Dodecatheon, all made up from the scapes more or less furnished with flowers of the common species, with leaves belonging to other genera. * * * But enough about that poor insane—Requiescat in pace!

"If Rafinesque, in this instance [regarding a species of *Hypericum*], had hit upon a new species, it was not always his case. No writer has ever made more lies than this poor insane man. I say insane—to justify, in some measure, his most impudent stories: Depend upon it, he never saw of his pretended thorny Aesculus but the fruit of your Aesculus glabra."

The Elias Durand herbarium was presented by him in 1868 to the Muséum d'histoire naturelle, Paris, it being there maintained as a separate collection under the terms of his gift. It has apparently been little consulted by American botanists, but Mrs. Agnes Chase has examined it for the grasses and Doctor Pennell for the Scrophulariaceae. What a very thorough task Durand accomplished in eliminating the Rafinesque material is indicated by the fact that Mrs. Chase found but a single specimen representing Rafinesque's new genera and new species of grasses, while of about seventy species of Scrophulariaceae that Rafinesque described as new, Doctor Pennell found representatives of only seven. This Durand-Rafinesque episode is excellently summarized by Doctor Pennell, *Bartonia* 23: 45. 1945, as follows:

"We can picture Durand toiling by candle-light in an 'obscure cellar' of Philadelphia just a hundred years ago, and see his eyes brighten with pleasure as he came upon some collection of Elliott, or Riddell, or Carpenter, that he deemed worth saving. Meanwhile the trash container was being filled with the undoubtedly poor specimens that bore however the peculiar and strange names that Rafinesque had assigned to them. At some new generic name attached to something quite familiar to him—say, *Aureolaria* for a yellow *Gerardia*—we can see the impatient thrust that sent it to oblivion. Durand never dreamed that there would come rules of priority into nomenclature, or any other rules to supersede the perfect settling of our botanical problems that he was witnessing in the work of John Torrey and Asa Gray. Besides, who would ever think of reviving, or even investigating the names suggested by such a madman as Rafinesque? * * * Would that someone of a century later could have been in the cellar with Durand and told him which specimens to save! What an incredulous glance such an interloper would have received!"

Such was the fate of Rafinesque's herbarium. No matter how inadequate or how poorly prepared his herbarium specimens were, everything that could by any stretch of the imagination have been interpreted as a holotype—the specimens were clearly named by Rafinesque—should have been preserved. Instead Durand deliberately discarded many many hundreds of holotypes, only occasionally saving a Rafinesque specimen that happened to be well prepared; the basis of selection was not the historical importance of a specimen but rather how well it was prepared. Thus the good specimens in the Collins herbarium were saved although most of them had little historical significance. Some of the material that he saved, particularly European specimens that he thought would be of very little value to the Paris Museum, he presented to his correspondents here and there, but most of the historically important specimens went into the trash heap. Thus it is that one finds in the Darlington herbarium at the State Teachers College, West Chester, Pennsylvania, and in a few other places, occasional specimens, chiefly representing European species, from Rafinesque's herbarium.

If a reasonably high percentage of Rafinesque's holotypes were extant today, it would be a very simple matter to determine accurately the exact status of a great many of his described species and even some of his described genera that are still of doubtful status, merely by examining the specimens on which the descriptions were based. This is no longer possible, thanks to the thorough task of destruction that Durand accomplished a century ago. As long as we or our successors have to consider the Rafinesque entities there will remain a distinctly large residue that cannot safely be placed from a study of the brief descriptions alone, even when studied in connection with ample modern collections from the historical localities. Thus the lists of genera and species *incertae sedis* at the ends of monographic treatises will continue to be rich in doubtful Rafinesque names if monographers believe in thorough bibliographic work and really attempt to account for all validly published names within the group and area under consideration. Many will doubtless be content to ignore what Rafinesque did in such genera as *Citrus*, *Vitis*, *Gossypium*, *Trillium*, *Quercus*, *Pyrola*, *Prunus*, *Viola*, *Rosa*, *Viburnum*, *Gentiana*, *Fraxinus* and the various genera that Rafinesque segregated from some of these, as well as in many other genera where he let his imagination run wild, as it were, in segregating new species. Personally I cannot escape the conviction that where the status of a Rafinesque entity can be determined with reasonable certainty, be it genus, subgenus, species, or variety, his names, if valid, should be recognized, either as the accepted name for this or that group, or as definite synonyms. Even if this idea be consistently followed, there will still be plenty of Rafinesque names that can never definitely be placed.

RAFINESQUE'S LIBRARY

Within his means, which up to 1815 were apparently reasonably ample, Rafinesque built up a significant per-

sonal library. This assemblage of literature that he had used while residing in Palermo 1805-1815, was lost when the ship on which he was a passenger was wrecked in November, 1815. Soon after his reestablishment in the United States he commenced to acquire reference books, which, in 1832, he valued at \$1250.00. What became of his library we do not know, although it is recorded that at the administrator's auction sale of Rafinesque's effects following his death in 1840, one lot of clothes and books brought \$22.29, manuscript books \$5.00, and waste paper \$20.25. Yet it is also recorded that there were "eight loads of books, minerals and shells" sent to the auction rooms. The total receipts from the sale was \$131.42, leaving the estate indebted to the executor in the amount of \$13.43.

THE FATE OF RAFINESQUE'S PUBLICATIONS

One can only conclude that the bulk of Rafinesque's unsold stock of his numerous publications issued between 1830 and 1840, was included in that item "waste paper" which brought the magnificent sum of \$20.25. This would include all or most of his stock of such now very rare items as the *Sylva Telluriana*, *Flora Telluriana*, *Autikon Botanikon*, *Alsographia Americana*, *Herbarium Rafinesquianum*, *Atlantic Journal*, *American Manual of Grape Vines*, *American Manual of Mulberry Trees*, *New Flora of North America*, *Good Book*, *American Nations*, *Safe Banking*, *Genius and Spirit of the Hebrew Bible*, *Celestial Wonders and Philosophy*, *Ancient Monuments of North and South America*, *Pleasures and Duties of Wealth*, and various other smaller publications issued during the last hectic decade of Rafinesque's life. We know from Rafinesque's own statement that the original edition of most of the botanical works were limited to from 100 to 160 copies, small enough editions to ensure the ultimate rarity of these works even had no catastrophe happened to the undistributed stock that remained when Rafinesque died. Thus the *Autikon Botanikon* issue was 100 copies (see that work, p. 2), and that of the *Flora Telluriana* was 160 copies (see that work 4: 6. 1838). As the matter now stands for many of the above works, the known copies are very few in the libraries of the world, sometimes only two or three, sometimes from eight or ten to a dozen or fifteen.

RAFINESQUE'S OWN DISTRIBUTIONS

It is known from Rafinesque's own statement that he distributed a limited number of complimentary or perhaps review copies to selected correspondents in Europe and in America, but the number so distributed must have been small. It is also known that he offered to exchange copies of his own publications for other works that he desired to acquire. It is manifest from the record as we know it that Rafinesque's actual sales of his more technical botanical volumes were very limited. His associates were not impressed with either his knowledge, his qualifications, or his publications, and many of them were so violently opposed to his

ideas of classification and his profuse publication of new genera and new species that they would have nothing to do with him or with his work. To the conservatives of the time Rafinesque must have seemed to be the incarnation of evil.

PRESENT RARITY OF RAFINESQUE PUBLICATIONS

It is now rare indeed that dealers offer any Rafinesque items. Yet it is interesting to note that of one of Rafinesque's works that was certainly issued in a relatively large edition in 1828-30, his *Medical Flora*, of some practical value at that time, one lot of eight copies was sold at the auction of his effects for \$3.16, and another lot, the number of volumes not indicated, brought \$19.75. A recently quoted price on a single copy of this relatively valueless work is \$135.00; one shudders to think what this dealer might ask were he fortunate enough to acquire a copy of the *Autikon Botanikon*, the *Flora Telluriana*, the *Sylva Telluriana*, or the *New Flora of North America*, and realized what he had. In 1948 one optimistic dealer offered a copy of Rafinesque's small (55 pages) *Précis des découvertes somiologiques* printed in Palermo in 1814 for \$250.00; but now that it is available in offset form this price will doubtless be deflated.

THE MEDICAL FLORA

It is suspected that this work was perhaps the only one of Rafinesque's independently published volumes for which there was a reasonably good demand, and, for a time, a steady sale. It was published by Atkinson and Alexander, Philadelphia, volume one in 1828, volume two in 1830. No information is available as to the size of the edition but as this was a commercial venture on the part of the publishers, it was for the time doubtless reasonably large. The demand apparently continued due to the place the work took in the propaganda of the devotees of the Thompsonian system of medicine which in the decade from about 1834 to 1844 saw its development and decline. The practitioners of the Thompsonian system were the botanic physicians. One important tenet was that mineral drugs should be avoided and that the only good remedies were those of plant origin. In the decade covered, a considerable number of short-lived periodicals were established in which the word "Botanic" appeared as a part of the title such as *Botanic Investigator*, *Botanic Journal*, *Botanic Luminary*, *Botanic Advocate*, *Botanic Sentinel*, etc.⁸² It is suspected that the rise of this medical cult increased the demand for Rafinesque's text to such a degree that to meet it the first volume was reprinted in Philadelphia, being issued in 1841, the year following Rafinesque's death, as the *Medical Botany of the United States*. This was not copyrighted nor is the name of the printer or publisher indicated. This was doubtless a Rafinesque rather than an Atkinson and Alexander venture be-

⁸² Merrill, E. D. A Generally Overlooked Rafinesque Paper. *Proc. Am. Philos. Soc.* 86: 72-90. 1942 (p. 80).

cause Fitzpatrick⁸³ reproduced the broadside distributed to advertise the sale of this volume with the other personal effects of Rafinesque. In spite of Rafinesque's distinct care in specifying his objectives and his castigation of the numerous medical sects that then infested the country, his work on medicinal plants became the text of the Thompsonian physicians.

In the introduction to the *Medical Flora* which was dedicated to Messrs. Torrey, Short, and Elliott "in token of friendship, esteem and respect by their friend, the author," Rafinesque pays his respects to theorists, empirics, rationals, improvers, eclectics, Marabouts, Brownists, Galenists, Mesmerians, Skeptics, chemicalists, calomelists, entomists, herbalists (called also Indian or root doctors), quacks, patent doctors, steam doctors, and others. He states that he gathered his data over many years while travelling through fourteen states of the Union; that his qualifications for the task came from fifteen years of botanical observations and medical researches, and 8000 miles of botanical travels "wherein he diligently enquired and learned from the learned and the illiterate the results of their practical experience"; and that he "never despised knowledge because imparted by an uncouth mouth, and has often made experiments on himself and others to test peculiar facts."

On page xi he states that: "Botanical accuracy has been strictly adhered to throughout, and all the descriptions are original. To avoid other novelties, but few improvements have been attempted or suggested in nomenclature or criticism"; and yet, in this work, which I judge to be perhaps the most creditable of all of Rafinesque's very numerous botanical publications, he as in other volumes, used it as a medium for proposing new names on a distinctly large scale. The 100 illustrations were all drawn by him, giving proof, if proof be needed, that he had actual talent as a botanical draftsman. The figures were republished by him in his series the *School of Flora* in the *Saturday Evening Post* and in *The Casket*, and some of them were used in certain other works that he issued.

Packard⁸⁴ has given some attention to the botanic physicians in reference to their relations with Rafinesque, showing how they distorted the latter's suggestions and recommendations to support their theories. He states:

"The Botanic physicians claim as their precursor the botanist, Constantine Schmaltz Rafinesque. His most important work was his 'Medical Flora; or Manual of Medical Botany of the United States of North America,' published at Philadelphia, 1828-1832 [1830]. This book became the *vade-mecum* of the Botanic physicians. Wilder quotes two of his statements which figure frequently in all the writings which subsequently emanated from the 'Botanics'; 'the popular belief that every country produces simples suitable to cure all their prevailing diseases is not devoid of truth,' and 'there are many modes of effecting cures by equivalent remedies, but vegetable substances afford

the mildest, most efficient, and most congenial to the human frame.'

"It would be hard to find an instance of more flagrant perversion of the views of a writer to suit the objects of the abstractor than the method pursued by Wilder to make it appear that Rafinesque wished to destroy the medical sciences of his day as represented by the works of Boerhaave, Cullen, and Rush, in order that he might establish a new system solely on a botanic basis. Even the quotations which he gives from the pages in which Rafinesque sets forth his object in writing his 'Medical Flora' are not compatible with this view. It must be remembered that medical treatment was at that time largely based on vegetable drugs and what Rafinesque sought was to write a medical botany adapted to the needs of the American physician and pharmacist. He makes no attempt to found a school or a system of treatment. He was an erratic genius and he frequently made rash statements but if one reads his book with an open mind it gives a most favorable impression of his honesty of purpose and even if his views as to the value of certain plants have since been proved exaggerated or wholly erroneous, they are usually in accord with the ideas prevalent in his time."

THE PULMEL EPISODE

Rafinesque had pharmaceutical and medical interests and perhaps felt himself competent to treat human diseases at least as well as the average practitioner of the time. When he was interested in furthering the sale of his ill-conceived pulmel as a remedy for pulmonary tuberculosis he actually signed various press items supporting the claims made for the remedy as "Medicus," stating, *The Pulmist* 8. 1829: "My dislike of every appearance of empirism, and my wish to avoid censure, induced me to conceal myself under the name of Medicus." While pulmel did not justify the hopes and claims of its originator, one hesitates to condemn Rafinesque for his venture into the patent medicine field. He claimed that he had cured himself of an attack of pulmonary tuberculosis by the use of pulmel. One suspects that the cure resulted from the living conditions, food, etc., that he specified rather than from the pulmel itself, the ingredients of this cure being Rafinesque's secret. One concludes that even here where he sold the book and the remedy for profit, freely advertising both over a period of several years, and actually accepted fees⁸⁵ for diagnosing cases of tuberculosis and prescribing treatments to be followed, that he did so in good faith and with full confidence in his medical discovery.

In any case this period was a prosperous one in the financial annals of C. S. Rafinesque, the income from the sale of pulmel plus fees that he received as a consultant on tuberculosis (\$50.00 in the case of Daniel Vanslyke) enabling him to pay his debts, repurchase his natural history collections which had been retained by the transportation company for non-payment of transport charges, and embark on the extensive publishing campaign that coincided with the last decade of his life.

⁸³ Fitzpatrick, J. T. Rafinesque. A Sketch of His Life With Bibliography, 42. 1911.

⁸⁴ Packard, F. R. History of Medicine in the United States 2: 1229. 1931.

⁸⁵ Weeks, M. C. Medical Consultation on the Case of Daniel Vanslyke. By C. S. Rafinesque, Pulmist &c. Philadelphia 1830. Bull. Hist. Medicine 18: 424-437. 1945.

RAFINESQUE'S PUBLICATIONS GENERALLY IGNORED BY NINETEENTH CENTURY BOTANICAL BIBLIOGRAPHERS

Rafinesque did not receive very much attention from the botanical bibliographers of the nineteenth century, and this is perhaps one of the reasons why so many of his legitimately proposed generic names and binomials were ignored by European and other botanists. Another potent reason, of course, was the extreme rarity of Rafinesque's publications in even the largest European botanical libraries; and yet as early as 1830 Bartling in his *Ordines naturales plantarum* accounted for approximately 70 of Rafinesque's new generic names either as accepted ones or as synonyms from among those that had been published up to that time. This non-availability of many of Rafinesque's publications in London was the chief reason why so many Rafinesque names were not entered in *Index Kewensis*.

In the first edition (1851) of Pritzel's classical *Thesaurus literaturae botanicae*, sixteen Rafinesque works are included, of which he examined copies in various libraries in Germany, Switzerland, and France. In the second edition (1872) Pritzel, or C. Jessen who edited it, the Rafinesque entries were reduced to four only. B. D. Jackson, *Jour. Bot.* 18: 170-177, 1880, criticized this procedure, for in comparing the entries in the first and second editions of the *Thesaurus* he complained about the wholesale rejection of entries under certain authors including Rafinesque.

Pritzel's work is the most significant one in its field ever published in the entire history of botany, covering as it does the independently issued volumes from the beginning of printing to the year 1872. This is a remarkable census of the published literature on botany, *sensu latiore*, and is an essential tool for all bibliographers and taxonomists. Pritzel had his foibles and his prejudices, and one suspects that he really believed that most of the Rafinesque works were unworthy of inclusion in his *Thesaurus*. Note his treatment of P. J. Buchoz (1731-1807); in the first edition he listed thirty-five Buchoz titles, which in the second edition he reduced to twenty, expressing his adverse opinion of that author in 1851 in these strong words:

"Catalogus noster partem solummodo parvam innumerabilium operum miserrimi compilatoris [n. 27 Jan. 1731, +30 Jan. 1807] continet; recensui quae in bibliothecis botanicorum offendi et alia quaedam *Querardi*. Fraude ac ignorantia aequae eminens scriptor, in cuius ignominiam *L'Heritier* Buchoziam foetidum condidit, per semiseculum (1758-1807) ultra 500 volumina consarcinavit."

PROJECTED BUT UNPUBLISHED WORKS

From the beginning of Rafinesque's publishing career in 1803 he planned a great many works, some of which were never actually written. On the other hand he did complete many manuscripts, particularly during his period of residence in Palermo, 1805-1815, and while he resided in Philadelphia, 1826-1840, which, for one reason or another, were never published. The two periods indicated above cover the years when Rafi-

nesque's income was sufficient to permit him to embark on extensive private publishing programs. The interim, 1816-1825, was first a period of recovery from his disastrous shipwreck of November, 1815, followed by his impecunious years at Transylvania University, Lexington, Kentucky, when his income was very modest; but even in Lexington he actually continued his private publishing career on a modest scale.

The finished or partly finished but unpublished manuscripts prepared during the Palermo years were lost in the shipwreck above mentioned, the titles being listed below. His very extensive publishing activities of the decade 1830-1840 by no means exhausted his stock of completed manuscripts, the original copies of many of these unpublished items being preserved in the library of the Academy of Natural Sciences and that of the American Philosophical Society of Philadelphia.

Note Rafinesque's letter to Persoon, dated June 3, 1814, which he actually published as his *Précis*,⁸⁶ where on pages ten and eleven he lists no less than fifteen items. The first four papers had been published but mostly under very different titles. The next three were later published by Rafinesque, as were the last three. Those never published and probably never completed are the *Index d'une Flore générale des Etats unis d'Amérique*, in which he proposed to include 400 (corrected in the errata to 4000) species of which 100 were new; *Descriptions de 100 nouvelles plantes Siciliennes*; *Descriptions de 800 plantes de l'Amérique Septentrionale, pour servir à une Flora Fredoniensis*; *Mycologie Américaine ou Synopsis des Champignons de l'Amérique Septentrionale*, this with 800 species, perhaps about one half new; *Synopsis de l'histoire naturelle des Conferves marines de la Sicile*, about 70 species, 50 new; *Observations sur les Genres Croton, Jatropha, Convolvulus . . . etc.*; *Flore Sicilienne*, containing about 1800 species; and *Zoologie Sicilienne*, containing about 360 unpublished species.

Listed on the covers of this pamphlet are still other works that he had in hand under the title *Ouvrages et Essais déjà publiés par le même Auteur* [Rafinesque], but it is certain that some of these were never actually issued. Among these I list his *Monography of the Genus Bertolonia*; *Description of 2 N.G. of Crustaceous Yalomus et Heterelus*; *A N.Sp. of Fish, Echeneis caudisetus*; *A New Truff of Sicily Tuber rufescens*, with 2 plates; and *Monography of the Genus Callitriche*. The last three items were sent by Rafinesque to the Linnean Society in London but publication was declined. Rafinesque later complained that he could never interest British organizations in publishing his material. Some of the data included in the above manuscripts were later abstracted and published elsewhere by Rafinesque. I find no evidence that the last two items on the list were ever issued, these being his *Cent vingt planches choisies de Panphyton Siculum de Cupani*, but he says that the

⁸⁶ Rafinesque, C. S. *Précis des découvertes somiologiques ou zoologiques et botaniques*. 1-55. 1814. Palerme. Reissued in 1948 by the offset process. Peter Smith, New York.

plates were engraved between 1807 and 1812, but that the text had not yet been printed, and the *Choix de 40 planches de nouvelles plantes américaines, 1808 à 1811*, again regarding which he says: "Le texte n'est pas encore imprimé, plus de 60 N.G. et N. Esp. y sont figures." The plates of both of these works were those that he took with him on his ill-fated second trip to the United States, and they were lost when the ship was wrecked in 1815. It may be noted that Fitzpatrick lists the next to the last title as *Cento venti tavoli del Panphyton Siculum di Cupani*, quoting this title from the entry in Rafinesque's *Specchio* (1814), but he saw no copy of it. It is doubtful if it was ever published, yet here one might give Rafinesque the benefit of the doubt, for he says, *Fl. Tellur.* 1: 24. 1836 [1837]: "My edition of Cupani, and the Amer. plants engraved before 1815, were lost, plates and all in my Shipwreck of 1815 with my herbarium, only few copies having survived" [italics mine]. Tornabene, *Quadro storico della botanica in Sicilia*, 50-51. 1847, states:

"Il Cav. D. Giovanni Gussone in Napoli conserva 120 tavole del Rafinesque, cifrate co' numeri successivi dall' uno sino al 120 e le tavole sono ugualmente che le mie figurate da una sola pagina, e senza nomi degli obbietti compresi nella stresa"; and in a footnote: "Alcune notizie su queste figure mi sono state date dal Gussone per lettera." On page 50 he further states: "Sessantatrè tavole sono conservate nella mia Biblioteca . . . Nelle mie sessantatre tavole, dodici trovansi senza numerazione, e portando la lettera T, e le cinquaintuno sono numerate; la cifra più bassa è 5 la più alta 625, i numeri non sono successivi."

Pritzel, *Thesaurus*, ed. 2, 73. 1872, item 1994 at the end of the long note on Cupani's *Panphyton siculum* states: "Sub auspiciis C. S. Rafinesque Schmalz, ejusque observationibus annotationibusque locupletatum imaginibus aereis circiter 700, ab ipsis Cupani schematibus exscriptis et exacte denuo incisus per *Salvatorem de Ippolito*. Panormie, typ. Giordano. 1807. 4. (Manifesto e prospecto) 8 p., 1 tab. Bibl. Cand." He saw only Rafinesque's prospectus.

The set of proofs in the library of the New York Botanical Garden is probably all that is left of the work illustrating American species. See Gerard's caustic remarks on Rafinesque's figures of *Aedycia* and *Colonaria*, *Bull. Torr. Bot. Club* 12: 37-38. 1885: "I venture to say that no so absurd fungi as these ever were, or ever will be, found on the face of the earth." Yet Rafinesque could make excellent drawings as indicated by the well executed illustrations of fishes and of some plants in his *Caratteri* (1810) (eliminating some of his rather grotesque attempts to illustrate his genera *Pexispermia*, *Isolepis*, *Leptorima*, and *Phytelas*, and perhaps some of the other figures on plate 20), and the really excellent habit sketches in the form of wood cuts of various plants forming the illustrations of his *Medical Flora* (1828-1830), and repeated in his *School of Flora*.

Rafinesque's publishing plans were always on an exaggerated scale, and while he resided in Palermo, his proposed titles were by no means limited to the preceding list or to the works that he actually published.

Note the remarkable list on page three of the covers of number ten, volume two of his *Specchio delle scienze*, October 1, 1814, beginning with number seven (it is suspected that page two of the cover, which is not available, contained six other titles, for number seven is the first one on page three). Among these projected, but never published works are his *Generi ornitologici o nuova classificazione degli Uccelli*, with 200 genera, half of them new; *Sinopsis d'ittologia o le Definizioni di tutti i generi e le specie di Pesci*, with 100 new genera and 500 new species omitted by Lacépède and by Shaw; *Sinopsis di Mastodologia o le Definizioni di tutti i generi e le specie di Animali quadripedi e cetacei*, with 10 new genera and 100 new species; *Quadro dell' Universo e particolarmente dei Corpi organici*, a work like the *Systema Naturae* of Linnaeus; *Critica dei generi, o riforma dei nomi generici adoperati per gli Animali e le Piante*; *Classificazione dei corpi organici, o gli Animali e le piante*; *Sepiologia o Memoria sopra i generi e le specie delle Sepie di Linneo*, with about 20 new species; *Saggio sopra il Clima, il Suolo, l'Agricoltura, il Commercio e le Manifatture della Sicilia*; *Viaggio d'un naturalista in cinque Stati uniti di America, nel 1802, 3 e 4*; *Viaggio al Monti Nebrodi ed al Monte Etna nel 1809*; *Algologia metodica o introduzione alla Storia naturale delle Piante marine*; *Florula Byzantina o Catalogo delle Piante di Constantinopoli, compilata da Sestini, Forskael, Sibthorp, &c*; *Florula Liburnica o Indice delle Piante di Livorno*; *Lettere odeporeiche e botaniche sopra la Toscana, la Liguria e la Provenza*; *Piano analittico d'istruzione per la Sicilia*; and *Miscellanea di molte altre Memorie, Lettere, Saggi, Monografie, Osservazioni &c, sopra tutte le Scienze*. The total list of these for the most part never published works, many of which were probably never even completely written, was twenty-two. What the devotees to various branches of natural history and others have missed!

Rafinesque's habit of listing his actually published works as well as his projected ones was continued from time to time. This practice, while it has helped bibliographers in their search for very obscurely published papers, has at the same time resulted in a considerable loss of time and effort on the part of those who have searched in vain for items that Rafinesque listed as published, or at least as having been submitted to this or that individual or institution for publication. A few of the titles actually listed by Fitzpatrick as those of presumably published papers apparently never were issued.

In 1816 Rafinesque published in Philadelphia his *Circular Address of Botany and Zoology*, in which he discussed in detail his expansive plans for future publishing activities. In this work he lists many titles of other papers that he proposed to prepare, repeating some of the titles listed in the *Specchio delle scienze* and mentioned above. Here also he lists such items as his unpublished *Florula Delawarica, or Catalogue of the Plants Found in the State of Delaware*, 1804, and his *Florula Columbica, or a Catalogue of the Plants Found in the District of Columbia*, 1804. These had been sub-

mitted to Dr. Benjamin Smith Barton for publication in the *Philadelphia Medical and Physical Journal* but were suppressed by Doctor Barton.⁸⁷ On pages 15 and 16 he listed the manuscripts that he had nearly ready for the press and which he lost in his shipwreck of 1815. In eight cases he indicated that it was his intention to rewrite the lost manuscripts and publish them either in America or in Europe; here again this plan was fortunately never consummated. His promised *Shipwreck of a Naturalist* was never published except as this episode appears in his *Life of Travels*. Two major items in the lost manuscripts appear to have been his *Critique des Genres &c.*, indicated by him as *Critic of Genera, or Investigation of all Generic Names of Plants and Animals*, and the *Distribution des Vegetaux, &c.*, which he lists as *Classification of Plants, or the Natural and Analytical Method Applied to All the Genera of Plants*; both of these he listed as among the works that he proposed to rewrite. He did prepare *from memory* and actually published the technical descriptions of various new genera and species of Sicilian plants in 1817, *Am. Monthly Mag. Crit. Rev.* 1: 437-440, an extraordinary procedure, but apparently normal to Rafinesque. He states:

"They are extracted from my Fragments of a *Flora Sicula* which I wrote from memory in January 1816, about two months after my shipwreck. I believe all the characters stated are correct; the plants belonging to those genera having all been observed in the spring of 1815, were freshly impressed on my memory. I therefore consider that should, hereafter, any slight inaccuracies be detected in my descriptions, they will not be material, nor invalidate the establishment, characters and classification of those genera. They are all Dicotyles."

Involved here are the original generic names *Adoceton*, *Phedimus*, *Pternix*, and *Vetrix*, with ample descriptions. Also eight segregates from *Salix*, most briefly diagnosed, *Disynia*, *Vimen*, *Oisodix*, *Diplopia*, *Melanix*, *Amerix*, *Opodix*, and *Chalebus*. Included also are the original descriptions of twelve new species in *Ruta*, *Euphorbia*, *Orobancha*, *Xylosteon*, *Orchis*, *Herniaria*, *Adoceton*, *Phedimus*, *Pternix*, and *Vetrix*. Gussone, *Flora Siculae synopsis*, 1842-43, was apparently unaware of this strange contribution to our knowledge of the flora of Sicily, for he accounted for none of these strangely published species in that voluminous and critical work. Further comment seems to be unnecessary.

One can characterize only as utterly fantastic his proposition to issue a series of publications in which he planned to illustrate and describe all the American [United States] species of plants and animals. Each number was to consist of a plate and from one to several pages of descriptive text, publication to commence in 1818, with from 20 to 50 plates to be issued each month. In addition to the new major works, one botanical, the other zoological, his projected *Somiology of North America*, the parts were also to be made available to

individual subscribers under 115 different titles, some limited to entomology, ornithology, herpetology, mycology, algology, etc. (about 20 general monographs covering all major groups of plants and animals); others covering limited floras and faunas, such as *Flora and Fauna Hortulana*, *Flora and Fauna Medica*, etc. (23 titles); state floras and faunas from Maine to Michigan, Illinois, Missouri, and Louisiana and even the Northwest Territory (25 titles); local faunas and floras for the more important urban areas, such as Boston, New York, Philadelphia, Charleston, New Orleans, etc. (12 titles); "tract" floras and faunas, such as *Flora and Fauna Maritima* (6 titles); and closing with special regional floras, such as those of Greenland, Labrador, Hudson Bay, Bermuda, Florida, Texas, and the northwest coastal region (15 titles).

He optimistically thought that in orders of 100 "numbers" the selling price would be only five cents per number (one plate and one to several pages of text to a number) or should any subscriber "want his plates neatly coloured, he must then pay double the price." He also thought that the work could be completed in eight or ten years! This is his optimistic estimate regarding the significance of his grandiose plans for a great illustrated flora and fauna of North America (chiefly in his mind limited to what was then the United States, his projected but never initiated *Somiology of North America*):

"As the greatest difficulties in undertakings of such magnitude always lay in the first steps, it is probable that if they are overcome in this instance, similar attempts will be undertaken in Europe * * * ; and if they are entirely modelled on the present plan will complete of course an unparalleled Fabric of Science, raised to the Glory of Nature. In this instance, therefore, as in many others, America will have given the lead, which ought to procure to the present undertaking, the Character of the national work."

If the above formidable program were not enough to keep one man busy—for before he could initiate the work he had to build up his natural history collections and his library *de novo*—on page 17 he projected still another major work, a *Flora and Fauna Chresica*, "or chresiology [from the Greek *chreios*=useful; Rafinesque was intrigued with unusual words] of plants and animals of all parts of the world; and the various uses they have been, or may be put to, by all nations in the widest sense of the words . . ."; and stated that within a few years he intended to undertake this task also. One does not have to prove that in considering Rafinesque one is dealing with a strange individual. This strangeness is manifest in about everything that he ever did, or ever planned to do; and he was always planning for great future undertakings.

The next year he spawned another long list of titles of projected works, which, for the most part, were fortunately never published. In his *Florula Ludoviciana* 175. 1817, he listed a projected second edition of his *Analysis of Nature or Survey of the Universe and Organized Beings*, in English and in French, "with considerable additions," the *Amenities of Nature or Selec-*

⁸⁷ Little, E. L., Jr. A Note on Rafinesque's *Florula Columbica*. *Proc. Biol. Soc. Washington* 56: 75-66. 1943.

tion of *Original Travels and Tracts on Natural Sciences, Particularly Geology, Botany and Zoology*; and *Criticism of Genera, or an Alphabetical Investigation of Generic Nomenclature*, "to be published * * * as soon as he can make arrangements with some printers and publishers in America, or in Europe." Following this, two projected periodicals were announced, the *Annals of Nature*, and *Somiology of North America*; a 16 page number of the former was actually published in 1820. On pages 171-172 he listed 22 other titles of papers which he proposed to publish in 1818, most of which never saw the light of day in printed form. This same statement applies to the list of 31 titles listed on pages 166 to 171; some were merely titles of papers read before this or that organization, many never published, others published, at least in part, but not always under the titles as there listed.

In the later years of his life, while residing in Philadelphia, Rafinesque was even more expansive in his publishing activities than in his earlier period of relative prosperity while residing in Palermo. One suspects that had he been in a financial position to cover printing costs while residing in Lexington, Kentucky, between the years 1819 and 1825, that his privately published output might have been much greater. After finally settling in Philadelphia at the end of his Lexington period, and, at least for a part of this time in a more favorable financial position, his publishing activities increased enormously. And again, he was constantly planning other projects that never materialized. Note in his *Flora Telluriana* 1: 6. 1836 [1838] his projected *Fauna Telluriana* to be a synopsis of the new animals, living and fossil, from all parts of the world, including quadrupeds, birds, fishes, reptiles, crustaceans, polyps, etc.; and on page 24 he says: "I resolved to publish my 500 ICONES RARIORUM in mpt. [manuscript], and also my AUTIKON BOTANIKON or Self figures by specimens of 2500 new or rare plants"; he actually included 1500 of these in this, his last published work.

A little later, *Autikon Botanikon* 2. 1840, he listed as then in preparation (and the unpublished manuscripts of some of these are still extant) his: "Pomona of North America.—Pterikon or Ferns of N. Amer. and other parts [I have actually examined the manuscript of this]—Lirikon or New and Fine Lilies—Agrostikon or new and rare Grasses—Eriikon or figures of Heaths, Andromedas, Diosmas and other Ericoid Shrubs—Autikon Formosum or of Beautiful plants—Dendrikon or new Trees and Shrubs of North America." Probably some of these titles were devised to apply to actual sets of botanical specimens he offered for sale. I believe, because of the extant manuscript of the projected *Pterikon*, and the fact that in the subtitle of his *Autikon Botanikon* he stated that it was to include, among other groups, the lilies, grasses, ferns, etc. of all regions, that it was his plan to include the *Pterikon*, *Agrostikon*, *Lirikon*, etc. in the unpublished part of his *Autikon Botanikon*.

Some of these treatises would have been rather extensive. Thus on page 5, as to his proposed *Agrostikon*, he observed that it would contain 500 species of grasses and sedges. It is of interest to note here, because of the very great rarity of most of Rafinesque's publications, that his plan in reference to the *Autikon Botanikon* was to publish only 100 copies. While still at the apogee of his publishing activities he promised additional volumes, *New Fl. N. Am.* 4:4. 1836 [1838] as follows:

"The other works to be produced by myself gradually until 1840 and 1850, will also be numerous—my history of the American Nations before and after Columbus was suspended after two volumes were issued; but shall now be resumed speedily, and the next volumes comprize the history of the Tsalagis or Cherokees.—Of the Tols, Chols, Chontals &c, and other Atlantic Nations of Central America.—Of Muzzcas and other Nations of New Granada.—Of the Nations of Austral America &c."

The earlier lists will give some idea of the avalanche of publication that was averted in 1815 when he lost all his collections, books, manuscripts and drawings in the shipwreck in Long Island Sound. For the later lists the only inhibiting influence would have been Rafinesque's financial inability to cover the printing costs. Yet in spite of his always modest income, he lived so frugally that he might well have been able to continue his publishing career had he lived. He had the opportunity of posing a great many more enigmas in nomenclature in the form of inadequately described new genera and species, for the agrostologists, caricologists, pteridologists, dendrologists and others to solve. It may well be that his relatively early death was a blessing in disguise for both botanists and zoologists.

One finds a striking list of titles entirely outside of the field of biology in his *American Nations* 1: 41-42. 1836, these being projected and often actually prepared, but never published works. They include: *Materials for the History, Ethnography, &c of the Americans*—40 books begun in 1820; *Vocabularies of the Ancient and Modern Languages of Both Americas*—4 books begun in 1824; *Comparative Geography and Ethnography of Ancient and Modern America*—5 books begun in 1824—*Ancient Monuments of North and South America*—3 books and 200 plans, 1822; *Tellus, or the Primitive History of the Earth and Mankind*—30 books begun in 1821; *Synglosson, or Compared Examination of all Languages and Nations*—6 books begun in 1825; *Iconographical Illustrations of all my Historical Works and Travels*—in 10 cartons, begun in 1816. These were apparently his source books from which he later planned to extract data for publication. One suspects that most specialists in the above fields would evaluate Rafinesque's works very much as the biological ones are judged by competent botanists and zoologists—mostly bad. However, no matter whether he was right or wrong in his anthropological, ethnological, and philological speculations, he was the first to discern from the meager published account (1822) that the Mayan system of ideographs was partly alphabetic.

DIVERSE PUBLICATION FIELDS EXPLOITED BY RAFINESQUE

Sane, or at times even insane, psychotic or merely neurotic, Rafinesque in his unbridled publishing activities raised myriads of problems in nomenclature in both botany and zoology for his successors to struggle with. But let not the biologists think that his efforts were confined to their field. His range of interest in publication of his own writings was boundless. Entirely outside of his keen biological interests he became intrigued with philology, archeology and history, but one scarcely has to be a trained philologist, archeologist or historian to realize that his conclusions in these fields are fanciful in the extreme, and as erratic or even more erratic than was much of his published biological work. We who are interested in botany should realize that the inexhaustible energy of Rafinesque and the inner force that impelled him, caused his encyclopedic but ill-ordered mind to cover a vast array of subjects, including such diverse ones as agronomy, agriculture, algology, American antiquities, archeology, architecture, art, astronomy, banking, bibliography, biography, botany, chemistry, chronology, classification, climate, commerce, comparative philology, conchology, economics, education, entomology, ethics, exploration, fiction, finance, fine arts, fire proof construction, freemasonry, geography, geology, gypsies, herpetology, history, horticulture, hydrography, ichthyology, immunization (vaccination), inventions, legislation, literature, mammalogy, manufacturing, materia medica, mathematics, medicine, metaphysics, meteorology, methodology, mineralogy, mining, morals, mycology, nomenclature, ornithology, paleontology, patents, pharmacy, philology, philosophy, phrenology, physical geography, physics, physiology, plant pathology, poetry (author of), political economy, quarantine and fumigation, savings banks, statistics, surgery, travel, veterinary science, and general zoology. One judges that he felt entirely competent to discuss all of these subjects with authority—an authority that neither his contemporaries nor successors accepted.

RAFINESQUE'S WORK IN DESCRIPTIVE ZOOLOGY

Not being a zoologist I make no attempt to evaluate Rafinesque's work in this field. It may be better or it may be worse than his numerous ventures into his favorite subject, botany. He was particularly interested in ichthyology and conchology but the fields of mammalogy, ornithology, entomology, herpetology, etc. received some attention. One suspects that the percentage of validity of his new genera and new species of American fresh water fishes and bivalves is relatively high, but for the simple reason that he was the first systematist to give much attention to the representatives of these groups as they occurred in the Ohio Valley. This was a new field not very much complicated by any descriptive work prosecuted by Rafinesque's predecessors and one in which naturally a high percentage of the forms which he observed, named, and characterized were actually new. Had he been preceded by other

competent individuals, as was the case in botany, the results might have been very different. One suspects that Rafinesque's ichthyological and conchological work rates rather better than what he did in the field of botany.

Yet the fate of his descriptive zoological work was very similar to that of his ill-conceived projects in botany. His zoological successors in general ignored the genera and species that he named and described, and redescribed very many of the Rafinesque entities *de novo* under other names. Thus because of the priority rule the zoologists are in the same dilemma as the botanists. As in botany, so also in zoology, many of the Rafinesque names are now accepted as the valid ones for this or that entity in the specialized fields of conchology, ichthyology, herpetology, ornithology, and mammalogy, and many of the names originated by Rafinesque's successors are relegated to synonymy.

COMPARISONS OF RAFINESQUE'S WORK WITH THAT OF CERTAIN OTHER BOTANISTS

Rafinesque may be justly censured for the inordinate number of new genera and new species that he proposed, but is he so much more to be condemned than certain more modern botanists? I have noted elsewhere that he was responsible for about 2700 new generic names, 335 new subgeneric names, 6700 new binomials, and 900 new trinomials and that a very small percentage of these have been accepted by his successors. At least, as to genera, in spite of his usually very short and often wholly unsatisfactory descriptions, he usually did indicate the type on which his concept of the group was based, and from an examination of his characterizations definite conclusions may be reached. How much better would Rafinesque's reputation have been had he limited his field and concentrated on preparing detailed and *accurate* descriptions of fewer entities! Again how unfortunate it is that he did not illustrate a reasonable percentage of his assumed new forms, for Rafinesque had a certain artistic ability and could make very excellent drawings.

MICHEL GANDOGER (1850-1926)

Before we censure Rafinesque too severely for his manifest shortcomings it is well that we consider some more modern cases of illogical conclusions and too liberal recognition of both genera and species. Michel Gandoger's *Flora Europae*, 1883-91, twenty-seven volumes in thirteen, contains some thousands of new binomials, but the work is of such a nature that no botanist has ever recognized his new names; they are not included in *Index Kewensis*. Manifestly he was dealing essentially with microspecies. Gandoger's work was actually eliminated from consideration by official action of one of the International Botanical Congresses, a start on a sort of botanical *index expurgatorius*. Such extreme action has been taken in only a very few cases, although at times individuals who have to deal with the idiosyncrasies of this or that botanist, including Rafinesque, might devoutly wish that similar action could

be taken in other cases. Presumably one of the reasons for eliminating Gandoger's work was that the publication was in lithographed handwriting and further the numerous new binomials appeared only in a key; but certainly lithographed handwriting is as much "publication" as the modern mimeograph or even lithoprint reproduction of typewritten copy. Wallich's famous "Catalogue" [List] of 1828-49 is lithographed handwriting. Most of the very numerous new names contained therein are *nomina nuda* (there are no descriptions); and yet the new ones that appeared in it are included in *Index Kewensis*, and most authors still cite this work as the place of origin of the new names involved. However, this work was prepared by responsible botanists, not by an irresponsible one like Gandoger.

HECTOR LÉVEILLÉ (1863-1918)

Between 1894 and 1918, Hector Léveillé named as new and very inadequately described perhaps 3000 new species of plants and a few new genera from Japan, Korea, China, and Hawaii. A very high percentage of these can be placed only by actually examining his extant type specimens partly because of his utterly inadequate descriptions, partly because of the extraordinary number of errors which he made in ascribing his "new species" to the wrong genera. One judges from the critical work of Rehder,⁸⁸ who examined and reported on the Léveillé types of woody plants, that not over ten percent of Léveillé's "new species" that he named and described were actually "new" at the time they were proposed. My estimate of ten percent is based on a consideration of about 1300 Léveillé species of woody plants from eastern Asia; numerous herbaceous species still remain to be critically studied. Doctor Rock,⁸⁹ who examined Léveillé's Hawaiian types, reduced nearly all of the supposed new Hawaiian species to synonymy.

What is even worse, Léveillé, unlike Rafinesque, had very hazy ideas of botanical relationships and accordingly a high percentage of his assumed new species were placed in the wrong genus and in many cases even in the wrong family. Thus, various old and well known species of *Ilex* (Aquifoliaceae) were described as new in *Celastrus*, *Callicarpa*, *Embelia*, *Maesa*, *Myrsine*, and *Diospyros* (in the Celastraceae, Verbenaceae, Myrsinaceae, and Ebenaceae); well known species of *Celastrus* were renamed and redescribed as new species of *Saurauia*, *Embelia*, *Erythrospermum*, and *Berberis* (in the Actinidiaceae, Myrsinaceae, Flacourtiaceae, Berberidaceae); and ascribed to various genera of the Verbenaceae, and named and described as new species were representatives of *Ilex*, *Dichroa*, *Colquhounia*, *Tacca*, *Viburnum*, *Meliosma*, *Hydrangea*, and *Buddleja*, in seven different natural families of plants (the Aquifoliaceae, Saxifragaceae, Labiatae, Taccaceae, Caprifoliaceae, Sabiaceae and Loganiaceae). Only one of these natural families is even remotely related to the Verbenaceae in which Léveillé erroneously placed these "new species," and in one case his new species of *Clerodendron* was not even a dicotyledonous plant, but a representative of *Tacca* of the monocotyledonous family Taccaceae!

The Léveillé record is, of course, a very bad one. The small percentage of his "new species" that survive were new largely by accident. The surprising thing is, that, considering the time that the collections were made and the parts of China from which most of his material came, his percentage of valid species is so small. If Rafinesque had had as little knowledge of and feeling for natural relationships as manifestly was the case with Léveillé, we would indeed be in a sad situation in reference to an interpretation of the former's genera and species, with his herbarium destroyed. It is no wonder that one responsible botanist has suggested that Léveillé's published work be officially eliminated and his herbarium destroyed! This Léveillé case is a beautiful illustration of irresponsible publication that working botanists have to contend with, and further an equally beautiful demonstration of the manifest fact that it is the easiest thing in the world to name and describe a new genus or a new species; but it is not so simple or easy to place the entity in its proper major or minor group in appropriate association with allied forms, or even to determine whether or not such and such a form that is suspected to be new had not been named and described by some earlier botanist. Here Léveillé, a modern author, out-Rafinesqued Rafinesque, and justly is much more worthy of severe criticism than the latter much maligned individual.

CERTAIN GENERAL COMPARISONS

It is a trite saying that comparisons are odious; they frequently are. Moreover it is very difficult to compare the work of one individual botanist with that of another. We all realize that in the history of botany there have been certain outstanding individuals whose work shaped our science as it now exists. A Linnaeus, a Willdenow, a Jussieu, a Robert Brown, a DeCandolle, a Bentham, a Hooker, a Gray, or an Engler—they all made mistakes, but their percentages of error were small and their names are and always will be honored among botanists. Manifestly neither the work of Rafinesque, nor Gandoger, nor Léveillé can be compared with that of men such as those listed above except to the utter disparagement of the last three erratic individuals; as between Léveillé and Rafinesque, however, my conclusion is that the work of the former (1894-1918) was very much worse than that of the latter (1803-1840).

WIDE VERSUS NARROW GENERIC CONCEPTS

Styles change in concepts as to generic limits, and these changes effect nomenclature very seriously. Con-

⁸⁸ Rehder, A. Notes on the Ligneous Plants Described by H. Léveillé From Eastern Asia. Jour. Arnold Arb. 10: 108-232. 1929 to 18: 273-321. 1937.

⁸⁹ Rock, J. F. Revisio plantarum Hawaiiensium, a Léveillé descriptarum. Repert. Sp. Nov. 13: 352-361. 1914.

sider Krause's treatment,⁴⁰ in the first decade of the present century, of all the European species of Umbelliferae and Cruciferae. He reduced all of the species in 39 genera in the former family to *Selinium* with 86 new binomials; and in the latter family all of the species in 66 genera to the genus *Crucifera* with 168 new binomials.

Contrast with this Van Tieghem's slightly earlier treatment of the Lorantheae. The Bentham and Hooker concept in 1880 was eight genera, which Van Tieghem increased to 133. In 1897 Engler, *Nat. Pflanzenfam. Nachtr., Teil II-IV*, 124-137, considering the same family, adopted a very conservative position, recognizing only 13 genera. But in 1933 Danser⁴¹ took a position intermediate between that of Van Tieghem and of Engler, by recognizing 51 genera, for the Old World representatives of this subfamily. He reduced a great many of Van Tieghem's genera to synonymy, but 12 of the 51 that he did recognize were proposed by him as new. All of these different interpretations of generic limits involved the publication of a great many new binomials. One suspects that the next student of this complex group may not agree with any of his predecessors.

In the period 1921 to 1935 N. E. Brown proposed about 75 new generic names as segregates from *Mesembryanthemum*, while Schwantes, Bolus and others proposed many more. Britton and Rose in their treatment of the Cactaceae (1919-1923), by subdividing the larger genera erected 37 new ones, and later Britton and his associates in treating the North American Caesalpinoideae and Mimosoideae, in addition to reinstating many genera originally proposed by Rafinesque, erected 51 new ones. One suspects modern specialists in the Gramineae, Orchidaceae, Rubiaceae and Acanthaceae of, in general, adopting the policy of narrow rather than wide generic concepts. Clearly Krause, representing one extreme, cannot be right in contrast to the other extremes as represented by Van Tieghem, Danser, N. E. Brown, Schwantes, Bolus, Britton, and others. The fact is that generic limits depend to a very considerable degree on the personal opinion of this or that specialist, and probably this will always be the case. The "lumpers," conservatives if you will, without going to the extreme of a Krause, will adopt the wider generic concept and the "splitters" will continue to divide and subdivide the larger and admittedly more or less collective genera. This is a terrible burden on nomenclature and synonymy, for it involves the publication of many hundreds of new names each year. These two words "lumpers" and "splitters" are, as L. H. Bailey notes, a discredit to systematic botany, yet these two words concisely indicate a radical difference of opinion, or of concept, as to delimitation of both genera and species. The extremists

of both schools, but particularly the modern disciples of Rafinesque, with Rafinesque, are responsible to a high degree for the low esteem in which systematic botany is held today.

WIDE VERSUS NARROW SPECIES CONCEPTS

Rafinesque believed that there was an unlimited number of distinct species. He did not hesitate to name and describe new ones on the slightest pretext. He was manifestly influenced by his expressed belief (after Adanson) that new species were constantly being developed in nature. One has only to scan the entries in this index to realize that in subdividing genera he favored certain natural groups, such as the Cyperaceae, Liliaceae, Orchidaceae, Salicaceae, Saxifragaceae, Rosaceae, Leguminosae, Umbelliferae, Convolvulaceae, Labiatae, Bignoniaceae, Scrophulariaceae, Compositae, and others. Believing in narrow generic limits he naturally accepted a correspondingly narrow species concept. As in proposing numerous genera he favored certain groups (families), so with species he favored certain genera such as *Clintonia*, *Trillium*, *Tradescantia*, *Morus*, *Spiraea*, *Citrus*, *Vitis*, *Gossypium*, *Dodecatheon* and others; and one notes that in some cases where he recognized a rather extraordinary number of new species from limited regions, modern botanists thoroughly familiar with the same regions have been able to distinguish only two or three species, and these often not very sharply differentiated.

Within a single genus there is often a tendency for individual botanists to take a most extreme view as to the narrow limits of species, even as did Rafinesque. Thus between 1885 and 1896 E. L. Greene proposed and described about 100 new species of *Eschscholzia*, chiefly from California; but the authors of the two modern floras of the region, Jepson in 1922 and Abrams in 1944, both widely familiar with field conditions, recognized only seven species, the former also admitting six varieties, the latter three only. Again between the years 1893 and 1913 Greene named and described about 70 new species of *Apocynum* from North America; but Woodson in his critical consideration of the genus in 1938 recognized but seven species (of which only three were Greene's) and twelve varieties. Witness the minute species segregations of Sargent and others in *Crataegus*⁴² (and incidentally their wholesale later re-

⁴⁰ Krause, E. H. L. in Sturm, J. *Flora von Deutschland*, ed. 2, 6: 49-169. 1902; 12: 17-163. 1904.

⁴¹ Danser, B. H. A New System for the Genera of the Lorantheae Lorantheidae With a Nomenclator for the Old World Species of This Subfamily. *Verh. Akad. Wetensch. Amsterd.* II. 29(6): 1-128. 1933.

⁴² See Palmer, E. J., *Brittonia* 5: 471-490. 1946, where *inter alia* he reduces to *Crataegus crugalli* Linn., 19 species; to *C. intricata* Sarg., 17; to *C. macrosperma* Ashe and varieties, 70; to *C. populnea* Ashe, 28; and to *C. succulenta* Link, and varieties, 64; nearly 200 optimistically proposed "new species," reduced to five only! Approximately 600 species of *Crataegus* from Eastern North America described within the present century have been reduced to synonymy, or to varietal status. Thus the mortality of recently proposed and described new species in this one genus as to percentage is as high or higher than the Rafinesque record in other genera. And it is interesting to note that these reductions have been made "without benefit of clergy" as it were; i.e., without the chromosome counts and other fine techniques that are now in vogue among the geneticists.

ductions), by L. H. Bailey in *Rubus*, by Greene in *Viola*, and by Small in *Iris*.

Another case worthy of mention is that of Burgess on Biotian Asters, *Mem. Torr. Bot. Club* 13 (2): i-xv. 1-419. pl. 1-13. fig. 1-108. 1906. Within a limited but rather strongly marked group, he recognized, on the basis of long continued field and herbarium studies, a total of 84 species, 58 of which were first characterized by him in 1906. The very fact that his successors have ignored most of his conclusions, and have recognized only a very few species within the group and area covered, leads a nonspecialist like myself to conclude that here was a case where an able investigator lost himself in a maze of details, and to a degree actually out-Rafinesqued Rafinesque in an attempt to segregate and define species.

But this wholesale describing of scores of very narrowly defined species is by no means confined to American botanists. Thus in the work of various European specialists the same tendency in *Rubus* and *Rosa* is evident. The detailed work of Folen, Zahn, Notø, Omang, Dahlstedt, Johansson, and others in *Hieracium*, and in the apomictic group *Taraxacum* the labors of Lindberg, Palmgren, Dahlstedt, and Haglund, are worthy of note. Handel-Mazzetti, whose species concept was broad, monographed the genus *Taraxacum* in 1907, recognizing for the entire world only 57 species. Yet from what is supposed to be, from a botanical standpoint, the better known parts of the world, and largely from Europe, perhaps 1100 new species of the genus have been named and described since 1907. Clearly Handel-Mazzetti's species concept in *Taraxacum* of 1907 was radically different from that of his successors. One may believe that when the next "lumper" considers the genus, the mortality of these recently proposed microspecies will be tremendous and the synonymy accordingly something extraordinary.

Thus many hundreds of new species have been described from European material within the present century in the genera above mentioned as well as in others. In accordance with the criteria used by the modern exponents of microspecies doubtless many more will be named and described in the future; clearly it should not be thought that the first four decades of the present century were in any measure extraordinary in respect to the subdivision of genera and the setting up of very narrowly defined species.

THE PERSONAL OPINION FACTOR

One concludes that as with generic limits, so with those of species, the personal opinion factor is an important one. Doubtless here there always will be differences of opinion, but somehow, sometime, we may arrive at a reasonable differentiation as between macrospecies and microspecies—for clearly in *Crataegus*, *Rubus*, *Rosa*, *Hieracium*, and *Taraxacum*, modern investigators of well known floras such as the long and intensively studied ones of Europe and of eastern North America, often deal largely with microspecies. I merely conclude

that before we throw too many stones at Rafinesque, no matter how vexed we may be with his erratic work, we should consider what other botanists have done and are still doing. I judge that even a widely experienced specialist would have very great difficulties in identifying a European *Hieracium* or *Taraxacum*, *Rubus* or *Rosa* species or an American *Crataegus* or *Rubus* species from the description alone, for eventually in descriptive botanical work we reach a point where words fail to indicate the differences that specialists see or believe that they see. If the specialist is puzzled, what is the situation of the amateur or of the casual individual untrained in botany who needs to know the name of this or that plant species?

We condemn a Rafinesque, a Gandoger, or a Lévillé for careless and irresponsible work. We do not, however, question their motives no matter how severely we may condemn their methods or their conclusions. We may differ honestly from the conclusions of a Krause, Brown, Schwantes, Greene, Britton, Dahlstedt, Lindberg or any other specialist who believes in exceedingly broad or in exceedingly narrow limits of genera and species; but this difference of opinion does not blind us to the excellent qualities of these men as botanists, qualities, as to detail, that are lacking in the work of what we may call the botanical pariahs, the Rafinesques, Gandogers, Lévillés and their ilk.

RAFINESQUE'S IDEAS ON EVOLUTION

Rafinesque's expressed ideas on evolution of 1832 (reflected from Adanson, 1763) are epitomized in the two following quoted passages:⁴⁸

"The truth is that *Species and perhaps Genera also, are forming in organized beings* by gradual deviations of shapes, forms and organs, taking place in the lapse of time," and that "every variety is a deviation which becomes a Sp. as soon as it is permanent by reproduction." This was Rafinesque's law of perpetual mutability taken over from Adanson (1763). How the new forms may arise and become more or less permanently fixed may be subject to varying interpretations. Rafinesque believed that there was a tendency to deviations and mutations by gradual steps at remote irregular periods. He states, *Flora Telluriana* 1: 13-14. 1836 [1837]:

"The periods of these deviations are doubtful, much fluctuating and various in length or existence. But we may assume as an average 30 to 100 years for the deviating or splitting range of specific deviation and 500 to 1000 years for the Generic deviation; altho' their real permanence is much longer. * * * Therefore many of our actual or newly described Genera and Species, may be of recent origine, and all may have sprung at the last rinovation or cataclysm of this Globe, from a lesser number of original types * * *."

Rafinesque has not been given much credit for his pioneer views on evolution, and I have noticed this else-

⁴⁸ Rafinesque, C. S. Extract of a Letter to Dr. J. Torrey of New York, dated 1st Dec. 1832. *Herb. Raf.* 11-12. 1833. Reproduced by E. D. Merrill, *Proc. Am. Philos. Soc.* 86: 74. 1942.

where. These ideas did not originate with him; he took them from Adanson, *Familles des plantes* 1 (1763). One has only to compare Rafinesque's statements with those of Adanson, vol. 1, p. cxiii "Les Espèces chanjent de nature," p. cxiv "Espèces chanjent suivant les Méthodes," and supplementary statements, p. clxi, clxviii. Adanson's entire discussion is worthy of more consideration than has generally been accorded to it in the past by those interested in the development of ideas on evolution. It is pertinent to note here Rafinesque's own statement as to his sources of information, *Fl. Tellur.* 1: 41. 1836 [1837], where he credits Adanson with being the source of his ideas regarding the origin of species.

"Adanson . . . was like Linneus, Necker and myself (in fact like all acute observers) a strenuous supporter of the doctrine that Species were unlimited, and increasing by the natural process of semination, deviation, variation, hybridization &c. Whence he concluded that we could hardly ascertain the primitive types of species, that many known to ancient Botanists were lost or no longer found, while new ones were evolved in mountains, groves, fields, and gardens."

FRANKNESS IN CRITICISM

Many botanists are individualists. They develop their own ideas as to what should constitute a genus or a species. They often express very frank opinions of the work of this or that author and in no uncertain terms as did Underwood, *Pop. Sci. Monthly* 70: 511-512. 1907, regarding Rafinesque: "In his crazy notions regarding the multiplicity of species, Rafinesque has no equals, a few weakling imitators, and only one real successor." By the last phrase Dr. E. L. Greene was meant, and if one wishes to find a caustic criticism of the latter, here it is from the pen of Katherine Brandegee, *Zoe* 4: 420. 1894: "A year or two before his death Dr. Gray dubbed the author [E. L. Greene] 'The new Rafinesque.' In this he was unjust to Rafinesque who was at once a great egoist, a little mad, and somewhat of a genius. Prof. Greene lacks the genius." This is considerably more caustic than Barnhart's mild criticism of Greene's practice of proposing and describing very numerous "new species," often, it is feared, no more distinct than were the corresponding brain children of Rafinesque when he (Barnhart) characterized the Greenian binomials not as synonyms but as chloronyms. Maybe Kipling was right when he expressed the idea that the female of the species was more deadly than the male.

It was only natural that Rafinesque should have been the subject of severe criticism on the part of his contemporaries because of the very nature of his work, in general unfinished, unpolished, illogical, inaccurate, incomplete, and utterly at variance with the botanical standards of the times. But Rafinesque was not an individual who hid his light under a bushel and he frankly expressed his opinion of those with whom he disagreed. Thus, as to Pursh, *Am. Monthly Mag. Crit. Rev.* 4: 191. 1819, regarding *Drosera filiformis* Raf. (1808) versus *D. filiformis* Pursh (1814): "Mr. Rafinesque * * * discovered *Drosera filiformis*, and de-

scribed it first, instead of Pursh, who has pilfered from him the plant and name"—or somewhat more baldly *Loudon's Gard. Mag.* 8: 246, 1832: "Pursh, in 1814, stole this plant from me." He objected to the generic names *Wisteria* Nutt.: "Dr. Wistar being neither a botanist nor a naturalist did not deserve the dedication of a genus," *Am. Monthly Mag. Crit. Rev.* 4: 194. 1819; to *Shepherdia* Nutt. and *Mahonia* Nutt. because the gardeners Shep[h]erd and Macmahon "did not deserve the dedication of a genus." In his discussion of *Bartonia* Pursh he correctly insisted that the name should be retained for the first group to which it was applied, *Bartonia* Willd., stating, op. cit. 193, "whoever shall not admit this can only act against his own conviction of right and must be influenced by some secret motives." As to some of Lindley's work, *Fl. Tellur.* 3: 5. 1836 [1837], he states, *inter alia*:

"Lindley seldom quotes me, and only by *ricochet* as the French say, not knowing and not caring for my works or labors. * * * When he shall receive this work and be astonished at my 2000 rectified Genera, he may if he likes probably treat me even worse than Spach; but although he may deny my New Genera, he cannot say that I make them on leaves, nor stipules, nor sperm-pollen, nor inside of the seeds or eggs of plants. Thus they cannot involve any one in perplexity, and are all conspicuous. Nor shall he find me adopting any barbarous or compound exploded name, such as *Cotone-Aster* (my *Cotonea*), nor *Amelanchier* (my *Amelancus*); nor *Mus Cari*, the Cari Mouse, else *Musca Ri*, the Ri fly; for my genus *Eubotrys* &c."

Lindley did not propose these criticized names, he merely accepted them, as all botanists, other than Rafinesque, have done.

These opinions of other botanists are widely scattered in Rafinesque's publications, but his criticisms are usually mild and for the most part well taken. The general subject of Rafinesque's published opinions of others and, incidentally of himself as well, would be worthy of a special treatise. As to his own qualifications he had no inhibitions, note op. cit. 5-7, where he states:

"Whatever he [Lindley] or others may think or say of my labors, they cannot find me inconsistent, nor in contradiction. Within my 40 years of botanical investigations I have always been consistent in deeming that *Genera and Species ought to be reformed till they become perfect, and unexceptionable*. Nor can I be accused of forming Genera on minute or invisible characters, or to give any bad names to my new or reformed Genera."

"Now by the absurd contending whims of Botanists it is become often needful to provide two names for a New Genus, for fear one should be already employed—or if you wish to secure a good name, it must be repeated till adopted, for fear that some jealous exploding Botanists may annul it by not deeming the first application given to a proper Generic group. When correct principles shall always guide Botanists, this will be avoided and rectified."

Confidence in one's ability to accomplish a certain task is an excellent trait if the individual realizes, as Rafinesque apparently never did, that there are certain limitations involved. Thus, while Rafinesque was absolutely confident in the clarity of his descriptions, insist-

ing that "they cannot involve any one in perplexity and [that the characters] are all conspicuous" no one who has endeavored to interpret an inadequately characterized Rafinesque genus or species on the basis of the descriptive data alone could possibly agree with him.

CONFLICTS OF TERMS

Those who delight in arguing for or against the validity of this or that proposed genus or species are not always consistent, but inconsistency seems to be a characteristic of taxonomic work. There is nothing of really great importance in either the generic or the specific name, so that the discussions usually become purely academic; but it must be admitted that at times the contenders may become sarcastic or even caustic. As to the genus and the generic name, the actual limits of a proposed group may be narrow or broad, and later botanists may adopt an interpretation utterly at variance with that of the individual who originally proposed the name. Here personal opinion plays an important part, and we cannot expect that all individuals will think exactly alike. As to the species, what we mean by that term is really a subjective concept rather than an objective reality, for it is a generally accepted dictum that species, as such, do not exist in nature. All so-called species vary much or little, no two specimens representing any accepted one being *exactly* alike in all particulars. Maybe some modernists who claim that the term species should be abandoned as being out-dated are correct in their contention that some substitute word such as phenotype or morph should be accepted, words that indicate nothing more than visible differences between organisms. One might suspect that such terms might be proper for the myriads of so-called species (microspecies) that modern specialists recognize in such genera as *Hieracium*, *Taraxacum*, *Rubus*, *Rosa*, *Crataegus*, and numerous others; that there are visible differences is admitted, but does a very minute visible difference in what, after all, are but minor characters, actually warrant the proposal of a binomial for such a variant? Even if one elected to use the term phenotype or morph, if one wished to compare one microspecies with another, each would have to be designated by a name, so after all, what would be gained by abandoning the old term for a new one? Better to return to the Linnaean principles as outlined in his *Philosophica botanica*.

In such a group as *Taraxacum* we may accept the dictum that there will always be differences of opinion as to what constitutes a species, as between Handel-Mazzetti, on the one hand, and a Dahlstedt, a Palmgren, a Haglund, a Lindberg, or a Koidzumi, or any other modern specialist who believes in characterizing and naming microspecies. The latter in good faith have proposed, and maintain, myriads of species distinguished by very minute differential characters as opposed to the conservative attitude of Handel-Mazzetti who believed in macrospecies and admitted for the entire genus only a relatively few species. We may agree with

Handel-Mazzetti, for his interpretation is certainly the more practicable one, but even in so agreeing we do not condemn the really critical work of his successors who differ from him most radically as to specific limits; nor do we call the ideas of the latter Rafinesquian, for unlike Rafinesque to their credit they did make very intensive studies and prepared and published very critical descriptions from which their contemporaries and successors can secure some definite idea of what was intended by this or that name. Such factors are conspicuous by their absence in the diffuse and careless work of Rafinesque.

RAFINESQUE'S PERSONAL OPINION OF HIS OWN QUALIFICATIONS

Here it seems to be pertinent to the subject under discussion to quote certain passages from Rafinesque's published works which provide a very clear idea of his conception of his own ability and qualifications; there were no limitations. Thus in 1821 in a letter written to Bory St. Vincent that Rafinesque actually published in his suppressed *Western Minerva* 1: 71-74. 1821, where he pays his respects to his fellow townsmen of Lexington, Kentucky, as:

"A set of unfortunate individuals, who have two eyes; but cannot see; their minds are deprived of the sense of perception; they are astonished and amazed at my discoveries, are inclined to put them in doubt and even to scoff at them . . . Our cat-fishes, eels, shads, sturgeons &c. are for them mere fish to fill their stomach! and moreover they are all of European breed, and were carried here by Noah's flood direct from the Thames, the Seine and the Rhine!—I let them rail to their heart's content, and I laugh at them . . . It is only in Europe that my labors and discoveries may be fully appreciated: here I am like Bacon and Galileo, somewhat ahead of my age and my neighbors."

Even more extraordinary than this are two later statements both written before 1836. Regarding his biological work he said, *New Flora of North America* 4: 6. 1836 [1838]:

"As I think that I am gifted with a peculiar sharp sagacity in discriminating Genera and Species of Plants, and Animals, it behoves me to use it to rectify these objects and the sciences relating thereto.—it is what I have often done, am now doing, and will continue to do as long as I live, not being prevented by the sneer or neglect of any one whom I consider less sagacious than myself, who cannot discriminate between the most conspicuous characters blended by the Linneists or modern Blenders and Schufflers."

Another extraordinary statement illustrating the exceedingly egotistical attitude of this strange enthusiast—misguided genius, if you will—is that on the last page of his *Life of Travels* 148. 1836:

"Versatility of talents and of professions, is not uncommon in America; but those which I have exhibited in these few pages, may appear to exceed belief; and yet it is a positive fact that in knowledge I have been a Botanist, Naturalist, Geologist, Geographer, Historian, Poet, Philosopher, Philologist, Economist, Philantropist . . . By profession a Traveller, Merchant, Manufacturer, Collector, Improver, Professor, Teacher, Surveyor, Draftsman, Architect, Engineer, Pulmist, Author, Editor, Bookseller, Librarian, Secretary . . . and I hardly

know myself what I may not become as yet: since whenever I apply myself to any thing, *which I like*, I never fail to succeed if depending on me alone, unless impeded and prevented by lack of means, or the hostility of the foes of mankind."

A JUDICIOUS EVALUATION OF RAFINESQUE

Doctor G. Brown Goode's evaluation of Rafinesque's early work while he resided in Palermo, Sicily, and the effect this early work had on the latter's future life is particularly worthy of note. This explains concisely how the cement had set, as it were, before Rafinesque returned to the United States in 1815, and why, in general, he failed to attain his objectives. This appears in *Science* II. 1: 384-387. 1895, in Goode's appreciative review of Richard F. Call's *Life and Writings of Constantine Samuel Rafinesque* i-xii. 1-227, illus. 1895. He states, regarding Rafinesque:

"A man whose brilliant intellect, eccentric character and unhappy fate will always cause his career to be looked upon with interest, and whose nervous and appalling industry has been the cause of a myriad of perplexities to students of the nomenclature of plants and animals in Europe as well as in America. . . . The roving habit of mind which soon became a part of his nature led him into a mental vagabondage that influenced his career even more than the lack of a permanent place of abode. His precocious mind, unguided and undisciplined, wandered at will over the entire field of books and nature, and by the time he had reached the age of nineteen he had formed his own character and equipped himself for the career which lay before him . . . Lacking . . . guidance, however, he was by no means fitted to enter upon a scientific career in a country like the United States, so when . . . he crossed the Atlantic [in 1815] he brought with him the germs of failure and bitter disappointment . . . His fatal tendency to 'scatter' was already apparent, and in the work which he did for the 'Specchio' [during his residence in Palermo] all the weaknesses of his subsequent career were foreshadowed."

Here is a careful and judicious evaluation of Rafinesque which clearly explains why that erratic, even if at times brilliant, individual failed. One does not have to examine Rafinesque's very numerous published works in detail to realize his weaknesses; their faults are evident on every page. The next ebullient writer who seeks to do a literary task with Rafinesque as a subject should really read and digest some of the latter's works before he reaches untenable conclusions.

ERRONEOUS EVALUATIONS

A number of individuals have praised Rafinesque's scientific work, but more have criticized his activities in this field, the criticisms sometimes very acute, but no sharper than Rafinesque's own aspersions on the work of his contemporaries such as Pursh, Nuttall, Eaton, Featherstonehaugh, and others. Doubtless some of Rafinesque's work was worthy of praise, but in my judgment only a very small percentage of his tremendous output is to be commended. In recent years with a marked increase in interest in Rafinesque and his work, a number of appreciations have appeared, some as parts of books, others in the form of reviews of certain reissues of Rafinesque publications such as

his *Life of Travels*. Some of these appreciations are excellent but others are so wide of the mark as to be almost ludicrous. In this class one must place Peattie's⁴⁴ strange hallucinations "as expressed in smooth, literary style with the jinglingly festive words in place," as one correspondent has expressed it. Here is a case of a trained botanist and incidentally one who in 1927 published a technical consideration of certain American species of *Trillium*, who in his ambition to write a readable book—creative writing if you will—curiously misinterpreted the significance of Rafinesque's work. *Trillium* was one of the genera that Rafinesque corrupted by inadequately describing an inordinate number of new forms (34 species and 67 varieties), a considerable number from the area that Peattie covered, and yet of which he accounted for only four.

Properly to treat such misguided conclusions one needs the pen of a Fernald; and here fortunately Fernald⁴⁵ has paid his respects to this modern Sir Galahad, from whose paper of 1944 the following passages are quoted:

"Nevertheless, although (his p. xxi) acknowledging what any clear thinker quickly sees, that 'Rafinesque's genius is debatable in the extreme,' that 'unbalanced . . . he may have been,' (his p. 166) and (his p. 263) that 'A Dr. Faustus, dangerously experimenting, tempting the rack or devil-ridden madness, would certainly correspond in a crude way to Rafinesque,' one of the few monographers of *Trillium*, Mr. Donald Culross Peattie, becomes ebullient over this erratic and 'unbalanced' man, whom, nevertheless, he considers 'one of the most prodigious and prophetic scientists of the century 1750 to 1850' (his p. 261)—the century, to mention a few botanists only, of Haller, Linnaeus, Lamarck, Humboldt, Robert Brown, De Candolle, Darwin, young Gray and his friend, young Joseph Hooker, and countless others for whom no one has the 'nerve' to apologize and who were respected by everyone for sanity, clarity and sound scholarship. Peattie, over-enthusiastic about the 'prophetic' nature of Rafinesque's unbalanced work, wrote (Green Laurels, p. 266): 'If the rules of priority were strictly and justly applied, Rafinesque would be found to have antedated a large part of the work . . . in botany of Gray and De Candolle.' Whew! Rafinesque himself might well have written such a sentence; his introverted brain (likewise that of Marcus Jones) frequently brought forth just such statements.

"But, returning to *Trillium*. One of the few monographic studies of *Trillium* is that of Peattie, *Trillium in North and South Carolina*, in *Journ. Elisha Mitchell Soc.* xlii. 192-206 (1927) and, as an outgrowth of this, the treatment of the genus in Small's *Manual* (1933). In the former treatment we read (p. 193): 'Following Asa Gray, who eschewed anything from Rafinesque's pen, Sereno Watson¹ . . . reduced to synonymy

⁴⁴ Peattie, Donald Culross. *Green Laurels. The Lives and Achievements of the Great Naturalists.* i-xxiii. 1-368, illus. 1936.

⁴⁵ Fernald, M. L. *Overlooked Species, Transfers and Novelities in the Flora of Eastern North America.* *Rhodora* 46: 1-21, 32-57, pl. 807-816. 1944. Reprint *Contr. Gray Herb.* 150 (p. 1-21).

¹ "Peattie seems to overlook the patent fact that both Asa Gray and his friend Alphonse De Candolle (dim lights, one gathers, as compared with his hero) regularly took up Rafinesque's genera and species when they were definite and had priority: *Peltandra* Raf., including *P. undulata* and *P. alba* Raf.; *Clintonia* Raf., with the species *C. borealis* Raf.; *Hexalec-tris* Raf., with the species *H. aphylla* Raf.; *Adlumia* Raf., with the species *A. cirrhosa* Raf.; and so on with scores of other

or varietal rank the greater part of Rafinesque's . . . names of *Trillium*. It was not until Small showed the limited nature of *T. sessile* L. and set off *T. Underwoodii* and later *T. Hugerii* that our knowledge of the genus drifted out of the doldrums into which workers like Watson, whose great genius and just fame need no defense, with almost no field knowledge, had put us.' In view of Peattie's evaluation of the work of Rafinesque it is, consequently, amazing that he so consistently ignored his 34 species and 67 varieties of *Trillium*, many of them described from the Carolinas or other Southern States, and that he failed to welcome the opportunity to displace *T. Hugerii* and *T. Underwoodii* of Small by Rafinesque's names of 1840 and 1830 respectively. If anyone has 'eschewed anything from Rafinesque' it is the author of a recent monograph who has ignored all but 4 (scarcely 4 per cent) of Rafinesque's published names in the genus—these all reduced by the admirer of that 'prophet' to synonymy."

In reference to Peattie's utterly unfounded statement that were "the rules of priority strictly and justly applied, Rafinesque would be found to have antedated a large part of the work * * * in botany of Gray and De Candolle," the reader is referred to page 20 where a tabulation appears of the Rafinesque genera that would, on the basis of strict priority, replace those of other authors. Of all the numerous genera proposed by Asa Gray and by the first two De Candolles, Gray and the De Candolles would lose to Rafinesque about ten names, an insignificant percentage (as to genera). Both Gray and the De Candolles accepted many of Rafinesque's generic names. They certainly had no undue "prejudice" against him. The percentages as to species are scarcely higher. I would add to Fernald's last statement in his quoted footnote that most authors of serious books try to be sure of their facts, and presumably *Green Laurels* was intended as a serious contribution to biological literature; but parts of the treatment of Rafinesque are more fictional than factual. One regrets to see unsupported and unsupportable statements included in a book of the type of the one above considered for it savors too much of actual prostitution of facts to the production of an entertainingly readable book. In garden literature it may be already established that Peattie's evaluation of Rafinesque is correct: "Amongst all the naturalists who have ever worked on the American continent Rafinesque is the only one who might clearly be called a titan"—see *Bull. Gard. Club Am.* IX. 12: 16. 1945; but any one only reasonably familiar with the published record and with the available facts could only conclude that if Rafinesque was a titan he was a titan with feet of clay and no amount of creative writing will alter the picture.

genera. This was far from 'eschewing' his work, when sound. It was not the fault of either De Candolle or Gray that the great majority of Rafinesque's genera and species had been earlier described or were so vague as to be undecipherable. Neither is it through the 'prejudice' imagined by Peattie that earlier specific names have been taken up in Rafinesque's genera *Peltandra*, *Hexalectris*, *Adlumia*, *Cladrastis*, *Nemopanthus*, *Osmorhiza*, etc., nor that later monographers have discarded his genera *Didiplis*, *Steironema*, *Tlysanthus*, etc. Koehne, Handel-Mazzetti and Pennell, who made these generic reductions, had no 'prejudice' against Rafinesque's work, when understandable. Dramatic and unfounded statements have no place in real science; they belong in fiction."

THE UNCONTROLLABLE OPTIMIST

Versatile, positive, in a sense aggressive, with a phenomenal memory, an unusually wide knowledge of languages, uncontrolled and uncontrollable, Rafinesque proceeded on his way apparently convinced that his mission was to correct the errors of all of his contemporaries and predecessors in the wide realm of biology and many other fields of human endeavor. He scorned the opinions of his contemporaries and in some cases, and in no uncertain manner, pointed out some of their weaknesses and errors. Apparently when his contributions were refused by the editors of this or that periodical, as was not infrequently the case, he expanded his private publishing activities to the limits of his available income. This private publishing activity was, as noted above, initiated in Palermo, Sicily, in 1809, or perhaps in 1808, was continued there until 1815, reinitiated on a small scale first in Philadelphia, in 1816, slightly expanded during the period that he lived in Lexington, Kentucky, 1819-1825, and reached its apogee after he returned to Philadelphia, and particularly in the decade between 1830 and 1840.

EVIDENCES OF POOR JUDGMENT

This intense publishing activity of Rafinesque was another indication of his lack of good judgment, there being very little demand for the technical works that Rafinesque insisted on preparing and publishing. In this last hectic decade of Rafinesque's life he became even more Rafinesquian than he had been in the earlier years, his publishing activities continuing up to the very end. It was apparently to a very considerable degree the dissipation of his always limited financial resources to cover the printing costs of his numerous privately published works, from the sales of which the financial returns must have been very small, that left Rafinesque a veritable pauper at the end. It may be worthy of note that eighteen privately published volumes were issued between 1830 and 1840 that contained from 100 to 265, and another long series from 75 to 100 pages each, the two series containing a total of somewhat in excess of 3700 printed pages; and these figures do not include the numerous smaller pamphlets and no account is taken of his extensive contributions to periodical literature such as those that appeared in the *Saturday Evening Post* and *The Casket*.

We may admit that in some respects Rafinesque was ahead of the times. He realized the significance of the natural system of classification long before his colleagues in the United States even considered it. He recognized and largely based his work on the type principle. He properly subdivided certain large genera, anticipating our modern concepts of generic limits, although in many cases he extended the subdivisions entirely beyond reason (see p. 18). He outlined briefly his ideas on organic evolution. He was impatient of the limitations and shortcomings of his colleagues. However, the very fact that he published voluminously (see p. 40), and on an enormous range of subject matter

(see p. 44) does not make him great; the fact that he proposed more new generic names than any botanist who ever lived and a plethora of ill-founded new species again does not add to his stature. It is the lasting nature of one's contributions to a science that qualifies this or that individual for his place of fame in the history of a subject, and here Rafinesque definitely failed to qualify. He had the opportunity of actually becoming one of the great botanists of his time, but this opportunity he thoroughly missed. There are those who rather brutally say it is too bad that Rafinesque did not lose his life in the shipwreck in which he lost his herbarium, library, and manuscripts in 1815, for later generations of biologists would then have been spared the endless task of trying to unravel his thousands of nomenclatural enigmas; and there are doubtless those moderns who will insist that anyone who concerns himself with such an erratic individual as Rafinesque a century after the latter's death deserves just as little consideration as does that prince of erratic botanists. After several years of effort devoted in part to a consideration of the unending series of problems in botany alone, raised by Rafinesque's work, my frank conclusion is that in taxonomy and nomenclature we would have been infinitely better off today had Rafinesque never written or published anything appertaining to the subject.

I cannot help but feel, however, that the very fact that so much of Rafinesque's botanical work has been rather studiously ignored by the majority of American and other modern botanists is a reflection on botanical bibliographic research in the United States. I repeat that what I have here done for Rafinesque should have been done by some American botanist at least a half century ago (see p. 3). Thus it is that those who criticize this type of bibliographic research criticize themselves for their own shortcomings. I quote the closing statement from a previous publication:⁴⁶

"From a purely bibliographical standpoint Rafinesque's botanical publications are distinctly worthy of careful consideration, no matter how much his work may be criticized; and his work is, on the whole, eminently worthy of severe criticism. It is to be regretted, in justice to him, that the necessity of considering what he proposed was not realized at an earlier date. Asa Gray, *Am. Jour. Sci.* 40: 234. 1841, recognized this in the year following Rafinesque's death, for in 1841 he stated: 'Many of Rafinesque's names should have been adopted; some as a matter of courtesy, and others in accordance with strict rule.' A century later about the best we can do, when it is discovered that a Rafinesque generic name antedates a currently accepted one proposed by some other author, in ignorance of what Rafinesque published, is promptly to add the Rafinesque name to the already over-long list of *nomina generica rejicienda*. This, in Asa Gray's words, 'is neither courteous nor in accord with strict rule.' We who follow the cult of Flora, in times of old worshipped by the Romans, might at least recall the words of Ovid: 'Pascitur in vivis livor. Post fata quiescit cum suis ex merito quemque tuetur honos.'"

⁴⁶ Merrill, E. D. Rafinesque's Publications From the Standpoint of World Botany. *Proc. Am. Philos. Soc.* 87: 110-119. 1943, republished, *Chron. Bot.* 10: 360-373. 1946.

SANE OR INSANE?

Rafinesque has been accused by many writers of being insane, and if one wishes to accept this verdict, it offers a very simple way of eliminating all Rafinesque nomenclatural problems by merely ignoring them on the basis that he was mentally incompetent. This was what most of his contemporaries did, and is doubtless what some modern botanists would prefer to do. But who shall say? Was Rafinesque more erratic in his nomenclature and in his concept of generic and specific limits than were such modern botanists as Hector Léveillé, Michael Gandoger, E. H. L. Krause, or even a Sargent on *Crataegus*, an E. L. Greene in reference to inordinately fine distinctions as to species in numerous genera, or a Britton, a Rydberg, or a J. K. Small (this list could be very considerably extended) as representatives of the so-called "splitters," as opposed to the conservative school in reference to the limits of both genera and species? See p. 46.

I argue for neither acceptance nor rejection of Rafinesque's nomenclatural proposals. Acceptance of this or that name will in some cases further upset nomenclature, and again many difficulties are involved in interpreting just what Rafinesque intended this or that name to represent. I am not content to condone careless bibliographic work on the part of those later authors who have proposed and published new generic names, some even within the last two decades, when Rafinesque had proposed valid names for exactly the same groups from a decade or so to a century earlier; see pp. 25, 26.

The Audubon episode regarding Rafinesque's smashing the former's favorite Cremona violin while attempting to capture a bat in his sleeping room while he was Audubon's guest; his describing of new genera and species of fishes on the basis of purely imaginary drawings that Audubon prepared as a hoax; and the episode, which is definitely untrue, as anyone can prove by examining the original article, of Rafinesque's being charged with having named and described new species of thunder and lightning⁴⁷ and other similar anecdotes regarding that strange individual will continue to be repeated and in general they will lose nothing in repetition. Rafinesque was unstable, he was neurotic, perhaps at times he was on the verge of insanity, but far be it from me even to attempt to prove that he was actually insane. I know that there are individuals who will insist that this was the case and that they can prove it, but insane as Durand and others have claimed, or not, he was at times remarkably normal, even if we must admit that he was at other times often more illogical

⁴⁷ Regarding this too frequently repeated story, Fitzpatrick, J. T. Rafinesque, A Sketch of His Life With Bibliography. 102. 1911, says: "This article [*On the different Lightnings observed in the western states* * * * Western Review and Miscellaneous Magazine vol. I, no. I. pp. 60-62. * * * 1819] is the basis of the gross calumny inflicted on Rafinesque by various writers. They only discredit themselves who charge that Rafinesque deliberately described twelve new species of thunder and lightning."

than logical. He lacked balance, perspective, judgment, being markedly egotistical and erratic; he was always planning vast projects that were quite beyond the scope of his means to consummate, but these traits do not make him insane.

After all, what is insanity, and just when does one go beyond the pale? This is a matter for the alienist and the psychiatrist and not for the ordinary botanist or zoologist to decide, no matter what the degree of exasperation may be when one attempts to work out a Rafinesque enigma in nomenclature. In the popular mind most botanists who concern themselves with problems of nomenclature and classification and even those who prosecute field work are thought to be at least a little "queer"; and Rafinesque concerned himself with these fields in an unmistakable manner. I am reminded of a familiar quotation from Dryden:

"Great wits are sure to madness near allied
And thin partitions do their bounds divide."

Edgar Allan Poe, himself an individualist, concerned himself with the subject in his "Eleanora":

"But the question is not yet settled whether madness is or is not the loftiest intelligence; whether much that is glorious, whether all that is profound, does not spring from disease of thought, from moods of mind exalted in the expense of the general intellect. They who dream by day are cognizant of many things which escape those who dream only by night. In their gray visions they obtain glimpses of eternity, and thrill, in waking, to find that they have been upon the verge of the wisdom which is of good, and more of the mere knowledge which is of evil. They penetrate, however rudderless or compassless, into the vast ocean of the 'light ineffable' . . ."

Perhaps at times Rafinesque was mentally beyond the pale, and one of these times might have been immediately following his shipwreck in November, 1815, wherein, as expressed by himself,⁴⁸ he "lost everything, my fortune, my share of the cargo, my collections and labors of 20 years past, my books, my manuscripts, my drawings, even my clothes . . . all that I possessed, except some scattered funds, and the Insurance ordered in England for one-third the value of my goods." He goes on to say that for some days after the catastrophe he was in a state of utter despair. It was perhaps then, or shortly thereafter, that he wrote the letter to some friend or correspondent in Italy, on which "v.W." [Ludwig, Freiherr von Welden] later based his little note, with the strange title in the table of contents: *Rafinesque, Entdeckung neuer Gewächse im Schwimmen*, but which in the text appears under the title *Curiosa in Flora* 5 (2): 719. 1822. This, because it is indeed a curiosity, is reproduced below. Enough is said when one reads that in order to save his life he infers that he had to swim a long distance after the shipwreck, in the course of which he observed many new genera and species of fishes and marine plants which he then planned to describe as new.

It has been stated by various contemporaneous authors who knew Rafinesque personally, among them

John Torrey, that he was obsessed with the idea that very many of the plants, animals, and fossils that he observed in the eastern United States were unnamed and undescribed new species, and this idea is substantiated by Rafinesque's voluminous publications; perhaps that obsession was strong when he penned the letter that von Welden later saw. Torrey's statement, taken from a letter written by him to Amos Eaton, *Bot. Gaz.* 8: 289-291. 1883, is: "He [Rafinesque] is the best *naturalist* I am acquainted with, but he is too fond of novelty. He finds too many new things. All is new! new!" Having no inhibitions and no one to control him in his very numerous privately published works, and even more numerous shorter papers published here and there in periodical literature of North America and Europe, before the editors of the various serials realized Rafinesque's weaknesses, he definitely proved the claims against him. Yet nowhere did he ever publish the names and descriptions of the strange new organisms that, in his mind's eye, he observed in the quiet waters of Long Island Sound on that fatal foggy November day in 1815. Here is von Welden's statement:

"Der ganzen botanischen Welt ist Hr. Rafinesque Schmalz, Bürger der vereinigten Staaten, ein sehr grosser Sammler und Beschreiber von Pflanzen und Fischen, und überhaupt mannigfaltiger Naturgegenstände bekannt, seine Tauschanträge, die in der Flora erschienen, geben eine grosse Idee von seinen Reichtümern und Vorräthen. Ich habe auf einer meiner Reisen nach Toscana einen Brief dieses Herrn an einen sehr geachteten Naturkundler gesehen, worin ihm Herr Rafinesque anzeigt, dass er mit all seinen in Sicilien und Italien gesammelten Schätzen das Unglück gehabt hätte im Angesicht des nordamerikanischen Hafens, dem Orte seiner Bestimmung, Schiffbruch zu leiden, er für seine Person hätte sich jedoch mit Noth und Gefahr seines Lebens durch Schwimmen gerettet. Da die Strecke, die er so hätte zurücklegen müssen, ziemlich lang war, hatte er bei dieser Gelegenheit mehrere ganz neue Genera und Species von Fischen, Seepflanzen etc. entdeckt, die er denn nun auch beschreibt.

"Wie gross muss nicht die Leidenschaft für die Produkte der Natur und jene ein neues Genus zu machen seyn, welche Besonnenheit gehört dazu, wenn man selbst mit den Wellen, so zu sagen mit dem Tode kämpfend, alle dies genauen Untersuchungen zu machen im Stande ist, die doch für die Aufstellung neuer Arten nöthig seyn dürften!?"

No one can legitimately claim that Rafinesque was a normal individual, but one may take exception to the claims that he was actually insane. On occasions he may have approached the latter condition, and perhaps for limited periods he passed entirely out of the realm of normality. Certainly, however, when he penned the following passages⁴⁹ he was as normal as any botanist who ever prepared a manuscript for publication:

"Although these journeys were often undertaken with the additional ulterior view to collect Fossils and Animals, my favorite science and pursuit of Botany was always my main object. I always travelled with my botanical collecting book and reams of paper to preserve my plants: and thus I have been enabled to collect in 20 years since 1816, a most valuable Herbarium, rich in new species, rare plants, and complete Monographs; which have been increased by exchanges and pur-

⁴⁸ Rafinesque, C. S. *A Life of Travels* 48-49. 1836.

⁴⁹ Rafinesque, C. S. *New Flora of North America* 1: 10-15. 1836.

chases, chiefly of Southern plants; not having been able to explore as yet the Southern States, deterred by the bad roads, unhealthy climate, scanty fare, heavy expenses and state of society. A pedestrian Botanist is not always very welcome there.

"During so many years of active and arduous explorations, I have met of course all kinds of adventures, fares and treatment. I have been welcomed under the hospitable roof of friends of knowledge or enterprise, else laughed at as a mad Botanist by scornful ignorance. Often deemed a herbalist and wandering doctor by the vulgar, I have allowed or indulged this harmless belief, and thereby elicited from many quarters the local knowledge of medical facts, which I have published in my Medical Flora of the United States.

"I have seldom met with liberal enlightened men, who could believe that I was actuated by the pure love of knowledge and science; yet I have found such worthy men sometimes and their names are gratefully impressed on my memory. Such were J. D. Clifford, Alex. Walsh, Mess. Knevels, Adlum, Dr. Schultz, D. Jackson, H. Clay, Clinton, Meade, Maclane, Wells, Thompson, Aldie, &c, who without being Botanists, or at most mere florists, could appreciate my pursuits and facilitate my researches. As to Botanists and Zoologists [sic!] I made it a point to search for them and enjoy their society, mutually imparting our knowledge.

"Such a life of travels and exertions has its pleasures and its pains, its sudden delights and deep joys, mixt with dangers, trials, difficulties, and troubles. No one could better paint them than myself, who has experienced them all; but I must be brief in conveying a slight idea of them.

"Let the practical Botanist who wishes like myself to be a pioneer of science, and to increase the knowledge of plants, be fully prepared to meet dangers of all sorts in the wild groves and mountains of America. The mere fatigue of a pedestrian journey is nothing compared to the gloom of solitary forests, when not a human being is met for many miles, and if met he may be mistrusted; when the food and collections must be carried in your pocket or knapsack from day to day; when the fare is not only scanty but sometimes worse; when you must live on corn bread and salt pork, be burnt and steamed by a hot sun at noon, or drenched by rain, even with an umbrella in hand, as I always had.

"Mosquitoes and flies will often annoy you or suck your blood if you stop or leave a hurried step. Gnats dance before the eyes and often fall in unless you shut them; insects creep on you and into your ears. Ants crawl on you whenever you rest on the ground, wasps will assail you like furies if you touch their nests. But ticks the worst of all are unavoidable whenever you go among bushes, and stick to you in crowds, filling your skin with pimples and sores. Spiders, gallinets, horse-flies and other obnoxious insects will often beset you, or sorely hurt you. Hateful snakes are met, and if poisonous are very dangerous, some do not warn you off like the Rattle-snakes.

"You meet rough or muddy roads to vex you, and blind paths to perplex you, rocks, mountains, and steep ascents. You may often lose your way, and must always have a compass with you as I had. You may be lamed in climbing rocks for plants or break your limbs by a fall. You must cross and wade through brooks, creeks, rivers and swamps. In deep fords or in swift streams you may lose your footing and be drowned. You may be overtaken by a storm, the trees fall around you, the thunder roars and strikes before you. The winds may annoy you, the fire of heaven or of men sets fire to the grass or forest, and you may be surrounded by it, unless you fly for your life.

"You may travel over an unhealthy region or in a sickly season, you may fall sick on the road and become helpless, unless you be very careful, abstemious [abstemious] and temperate.

"Such are some of the dangers and troubles of a botanical excursion in the mountains and forests of North America. The sedentary botanists or those who travel in carriages or by steamboats, know little of them; those who merely herborize near a city or town, do not appreciate the courage of those who

brave such dangers to reap the botanical wealth of the land, nor sufficiently value the collections thus made.

"Yet although I have felt all those miseries, I have escaped some to which others are liable. I have never been compelled to sleep at night on the ground, but have always found a shelter. I have never been actually starved, nor assailed by snakes or wild beasts, nor robbed, nor drowned, nor suddenly unwell. Temperance and the disuse of tobacco have partly availed me, and always kept me in health.

"In fact I never was healthier and happier than when I encountered those dangers, while a sedentary life has often made me unhappy or unwell. I like the free range of the woods and glades, I hate the sight of fences like the Indians! The free constant exercise and pleasurable excitement is always conducive to health and pleasure.

"The pleasures of a botanical exploration fully compensate for these miseries and dangers, else no one would be a traveling Botanist, nor spend his time and money in vain. Many fair-days and fair-roads are met with, a clear sky or a bracing breeze inspires delight and ease, you breathe the pure air of the country, every rill and brook offers a draught of limpid fluid. What delight to meet with a spring after a thirsty walk, or a bowl of cool milk out of the dairy! What sound sleep at night after a long day's walk, what soothing naps at noon under a shaded tree near a purling brook!

"Every step taken into the fields, groves, and hills, appears to afford new enjoyments, Landscapes and Plants jointly meet in your sight. Here is an old acquaintance seen again; there a novelty, a rare plant, perhaps a new one! greets your view: you hasten to pluck it, examine it, admire, and put it in your book. Then you walk on thinking what it might be, or may be made by you hereafter. You feel an exultation, you are a conqueror, you have made a conquest over Nature, you are going to add a new object, or a page to science. This peaceful conquest has cost no tears, but fills your mind with a proud sensation of not being useless on earth, of having detected another link of the creative power of God.

"Such are the delightful feelings of a real botanist, who travels not for lucre nor paltry pay. Those who do, often think only of how much the root or the seed or the specimen will fetch at home or in their garden.

"When you ramble by turns in the shady groves, grassy glades, rocky hills, or steep mountains, you meet new charms peculiar to each; even the gloomy forest affords a shady walk. Every rock, nook, rill . . . has peculiar plants inviting your attention. When nothing new nor rare appears, you commune with your mind and your God in lofty thoughts or dreams of happiness. Every pure botanist is a good man, a happy man, and a religious man. He lives with God in his wide temple not made by hands. . . .

"To these botanical pleasures may be added the anticipation of the future names, places, uses, history, &c. of the plants you discover. For the winter or season of rest, are reserved the sedentary pleasures of comparing, studying, naming, describing and publishing. A time may come, when if all plants are well known, little will be left to be done, except seeking rare plants or occasional deviations and varieties; but a long while will elapse before this may take place, since so few of our plants are completely known as yet. Then will begin the labors of the draftsman, the collector of rare plants and roots, or the seeking of special and generic deviations."

A PSYCHIATRIST'S OPINION

Being somewhat curious as to what an experienced psychiatrist's reactions might be from reading various papers by and about Rafinesque, I asked Doctor J. M. Woodall, Boston psychiatrist and Medical Director of Adams House, to scan certain articles published by Rafinesque, including his *Life of Travels*, and certain papers by other authors about Rafinesque. This he very

kindly did, and has courteously supplied the following report. It is interesting to note that his conclusion is that Rafinesque suffered from psychic disorder, but this was neurotic rather than psychotic. Doctor Wood-all's report follows:

In an attempt to make an objective delineation of the personality of Rafinesque from his own account of his life one is forced to contend with the temptation his writings invite to effusive speculation and value opinion. However a careful study of his utterances, behavior, habits and performances as revealed in his autobiographical material is productive of an abundance of characterological data much of which justifies a conclusion as to his personality and character structure.

The composite impression one experiences of Rafinesque is that of a person in the grasp of an inexhaustible energy, a restless and tireless wanderer, an indefatigable examiner and reporter of natural phenomena, a consummate egoist of consuming intellectual appetite and versatility, whose prodigious productivity seems to have been the result of compulsive forces rather than a volitional direction. One gains the impression that he was inhabited by a driving force which made of him but a vehicle for its intellectual and physical expression and gave to his activities an automatic and indiscriminate character usually lacking where conscious choice and seasoned judgment are operative. There is a compulsion and inevitability to the outpouring of the grist of his intellectual mill which imparts to the process a quality that is detached, unbridled and undisciplined.

Evidence adequately warrants the conclusion that Rafinesque was a genius. He possessed a versatility of kaleidoscopic range. His work frequently was said to be careless, incorrect and unreliable. His ceaseless, compulsive mental activity, rapidity of execution and magnitude of output—representations of his character organization—adequately account for whatever lack of integrity his work possessed. I can find no evidence for dishonesty or that he was motivated by a desire to deceive. He was not a charlatan inasmuch as there was no conscious desire to misrepresent. His errors went uncorrected because he could not afford to let himself know they existed. Unreliability is a justifiable accusation. It is the natural expectation in a person almost completely lacking in self-criticism. He was guilty of failure to remove his errors. His judgment was obviously impaired but this should not be confused with dishonesty. Of what quality is that portion of his work found to be correct?

Aside from his extraordinary intellectual and energy endowments, qualities to be accounted for by heredity, his bizarre habits and performances are to be understood only when considered in the light of his personality reactivity and general character organization. Inasmuch as there is but meagre knowledge of his formative years it would be sheer guesswork to attempt to state why his character structure took the form that it did. Suffice it to say that character organization is the product, in

general terms, of the interplay of environmental influences upon an inherited constitution; and we know but little about either of these elements in the early life of Rafinesque.

Character trends bear a reciprocal relationship to the pattern of the behavior responses. The latter are but an expression of the former. The peculiar performances of Rafinesque were an expression of the demands of his character components. His behavior, otherwise meaningless, becomes intelligible and rational when viewed as an expression of his adaptive struggle. In such a struggle attitudes and patterns of behavior are formulated for dealing with the environment which have as their objective the preservation of the respective character organization, whether normal or abnormal. The patterns assumed by his behavior responses therefore subserved a protective function and it is this protective function which gave to them their compulsiveness, rigidity and indiscriminate application. These patterns were expressive of his individuality. Furthermore his security was based upon the maintenance of these established patterns of response insofar as they represented his methods of dealing with the world according to his lights.

Within the actual character edifice of Rafinesque the ego or self is of chief concern insofar as within its framework are to be found his ideas and attitudes of personal worth—values motivating his adaptive strivings. His ego was enlarged and hypertrophied to an abnormal degree. Its expansiveness was of such proportions as to constitute megalomania. About this inflated image of self as a central core his entire character organization revolved and crystallized. His life's energies flowed into behavior expressions which best allowed him to experience reality in accordance with his inflated ego values. His adaptive struggle became one of finding confirmation of his self-inflation in his relationship to life.

His actions therefore were entirely consistent with his concept of self. His attitudes were in conformity likewise with his ego values. No element of doubt as to the high quality of his work was allowed to enter his mind. He felt that he had a mission in life: to instruct, to improve and to reform. An overbearing manner reflected feelings of superiority.

In his contact with life whatever tended to conflict with his inflated image of self—whether person or situation—had to be depreciated. His colleagues were experienced as inferiors or peers but never as superiors. Some who disagreed with him were considered to be incapable of appreciating the high quality of his efforts and were therefore regarded as inferiors. Others who failed to confirm his narcissistic attitude were experienced as enemies and appeared in the light of persecutors. Admiration and prestige were obviously essential to his sense of well being.

If a name must be given to the type of personality possessed by Rafinesque that of paranoid is the one of choice. His inflated image of self, his tendency to

projection and his ineffectuality are all characteristic of a paranoid type of character structure. He was destined throughout his life to feel that others were slighting him. He suffered much from their failure to recognize his worth. "My works, researches, travels, collections, etc., will remain as proof of uncommon zeal, although unrequited and unrewarded."

From the evidence at hand I do not consider Rafinesque to have been insane. His reality was not qualitatively different from that of other people although unquestionably its value was quantitatively altered. While in constant conflict with reality he nevertheless met its demands. His distorted character structure forced him to cope with life under conditions which were difficult. His capacity to enjoy life was markedly impaired due to the limited means of attaining satisfaction and security imposed upon him by his distorted character structure, but nevertheless he experienced life in essentially the same terms as those around him. His character trends caused him to stand in his own way, to live a life of relative frustration and to accomplish much less than was consistent with his extraordinary intellectual capacities.

Rafinesque suffered from a psychic disorder despite the fact that he met environmental demands. This disturbance was neurotic in character rather than psychotic. When the character traits of a person are of such nature that collectively they interfere with an efficient and appropriate adaptation and therefore with the effectuality of that person, albeit such character traits represent individualized patterns of adaptive response, that person may be considered neurotic. In this sense we may consider Rafinesque to have been neurotic and his life to have been a representation of such neuroticism.

ON METHODS OF DETERMINING THE STATUS OF INADEQUATELY DESCRIBED GENERA AND SPECIES

Among the several hundred thousand named and described species of plants for which in excess of 1,000,000 binomials have been published, a surprisingly high percentage of the proposed new species lie in that borderland of inadequately described and misunderstood ones; to a much less degree this statement applies to genera. One of the objectives of all critical monographs or revisions of genera and of families, either for the entire world or for specific areas, is to account for all legitimately published technical names in connection with the determination of the valid name for each genus, species, or variety, and the adjustment of synonymy. Doubtless many professional botanists may at times devoutly wish that there was no such a category as synonymy. How much easier it would be to start out *de novo* on the basis of ample and well prepared material, than to be obliged to locate all published descriptions and to determine just what this or that author intended by this or that often incomplete and frequently wholly inadequate description.

In the case of doubtful entities clearly the simplest way to reach a satisfactory conclusion is to examine the material on which this or that genus or species was based, better the holotype, or if that be not available, then a duplicate type, or an authentically named specimen. Unfortunately in the history of botany it is found that too many authors, especially the earlier ones, never preserved specimens to represent the forms that they described as new; in other cases, even if specimens were prepared they were later destroyed. Merely because the actual type of an entity no longer exists is no reason for excluding this or that species from consideration. Thus it is that in a very large number of cases no type or even duplicate type exists, and the individual investigator must interpret this or that genus or species solely from the published record. In such cases he hopes and prays that the original author did not erroneously misinterpret basic morphological characters, for if he did the difficulties are vastly increased.

It was my fate to be compelled to accomplish a large amount of descriptive botanical work appertaining to regions where the pioneer botanists who prepared and published the early descriptive floras preserved little or no botanical material. Thus it was that in trying to account for this or that genus or species proposed and described by such authors as the younger Burman, Osbeck, Loureiro, Blanco, Llanos, Houttuyn and others, and even such pre-Linnaean authors as Rumphius (1627-1702; publ. 1741-1755) I was forced to depend basically on the published record. In the case of Burman, Osbeck, Loureiro and Llanos certain types were preserved, but for all of Blanco's, most of those described by Llanos and by Loureiro, and all of the numerous generic and specific names based by Linnaeus and his successors wholly on the work of Rumphius, Rheede, and other early authors, no types are extant.

It is fully realized that some contemporaneous botanists frown on this type of work, probably one reason being that they feel that in the absence of a type specimen one cannot be absolutely certain as to just what was intended by certain early names, and that it would be better to ignore them; certainly they feel that it is unwise to upset nomenclature by accepting this or that early name the exact application of which *they* may consider to be doubtful. The conservatives always object to changes in names that are necessitated by the rule of priority; and yet most of them would frankly admit that they believe in the rule—one suspects with a mental reservation that the priority rule is all right so long as it is not applied to groups with which they are familiar.

Regardless of criticisms and with a full realization that some of my conclusions in the past have been shown to be erroneous, I personally feel that if we expect future generations of botanists to respect our own work, then we should at least attempt to recognize and give due credit to the work of our predecessors. Where they in good faith proposed names that are valid and where such names have priority and their application can be

established with reasonable certainty, such names in general should be accepted. No matter how much we may legitimately criticize the work of this or that early author—or modern one for that matter—we should realize that, generally speaking, and presumably like ourselves, each one was trying to do the best that he could with such data as were actually available to him. We realize, as A. DeCandolle, *La phytographie* 141. 1880, has expressed it, in speaking of the really bad work of certain early authors of works on natural history; “l'existence de certains noms et de certaines planches rend nécessaire de consulter indéfiniment les plus mauvais ouvrages.” There is, however, no remedy for this situation other than by some future botanical congress actually, by vote, eliminating this or that work from consideration. Such action is very rarely taken and then only in the most obvious cases.

While my own work in this field has been largely on floras regarding which the average American botanist has little information and, generally speaking, less interest, the storm of verbal criticism increases in limited quarters as in recent years I commenced to give bibliographic attention to local North American problems which, strangely, have been overlooked by most workers in our few productive botanical centers. I have stated elsewhere in this document that it is to the discredit of American bibliographic methods in botany that this *Index Rafinesquianus* was not prepared and published a half century earlier. My major past publications in this complex field, for it is one full of pitfalls of one type or another, are as follows:

- Merrill, E. D. Osbeck's Dagbok öfwer en ostindsk Resa. *Am. Jour. Bot.* 3: 571-588. 1916.
- An Interpretation of Rumphius's Herbarium Amboinense. *Bur. Sci. Publ.* 9: 1-595, map, 1917. Manila.
- Species Blancoanae. A Critical Revision of the Philippine Species of Plants Described by Blanco and by Llanos. *Bur. Sci. Publ.* 12: 1-423, map, 1918. Manila.
- A Review of the New Species of Plants Proposed by N. L. Burman in his *Flora Indica*. *Philip. Jour. Sci.* 19: 329-388. 1921.
- A Commentary on Loureiro's "Flora Cochinchinensis." *Trans. Am. Philos. Soc.* II. 24(2): 1-445. 1935.
- A Critical Consideration of Houttuyn's New Genera and New Species of Plants, 1773-1783. *Jour. Arnold Arb.* 19: 291-375. 1938.
- Additional Notes on Houttuyn's Binomials. *op. cit.* 20: 264-268. 1939.
- In Defense of the Validity of William Bartram's Binomials. *Bartonia* 23: 10-35. 1945.
- & Reeder, J. R. New Plant Names Published by Amos Eaton Between the Years 1817 and 1840. *Bartonia* 24: 26-79. 1946.
- Unlisted Binomials in Chapman's *Flora of the Southern United States*. *Castanea* 13: 61-70. 1948.
- Unlisted New Names in Alfonso Wood's *Botanical Publications*. *Rhodora* 50: 101-130. 1948.
- & Hu, Shiu-Ying. Unlisted and Incorrectly Listed New Binomials in the Publications of Henry Muhlenberg. *ined.*

When one must depend entirely on the published record where it becomes necessary or desirable to determine the status and relationships of a proposed genus

or species, one naturally first makes a critical examination of the original description. If this does not suffice the next step is to determine whether or not the type is available. If it be extant it should, if possible, be examined. In the absence of a type specimen or authentically named material one should then determine, if possible, just where the material on which the description was based came from; and the next logical step is to study material from the type locality in connection with a consideration of the published description itself. It is surprising how often very inadequately described species can definitely be placed by following this simple but entirely logical procedure.

Not infrequently an early author may have grossly misinterpreted certain morphological characters and thus placed his assumed new species or genus in the wrong natural group remote from where it actually belongs. One may note in passing, that some modern botanists make just as gross errors, on occasion, as did earlier ones. Thus in 1922 I described *Juppia* as a new genus of the Menispermaceae on the basis of a staminate specimen, when in actuality what I had was a specimen of *Zanonia* Linn. of the Cucurbitaceae. Léveillé in 1912 described a monocotyledonous plant of the genus *Tacca* (Taccaceae) as a new species of *Clerodendron* of the dicotyledonous family Verbenaceae. In such cases a critical reexamination of the type material will generally solve the problem. When no type or even correctly named specimen is extant it is surprising how many of these "misplaced" entities can be correctly interpreted by applying the principle of elimination. This is actually the determination of what plant species growing in a certain region or in a certain locality and habitat agrees with the description of such and such an author who said that his material was from the same region or locality. It is admitted that in the absence of a type specimen it would probably be very difficult properly to interpret such a genus as *Axia* Lour. because of the misinterpretation of certain morphological characters by Loureiro; and yet Bentham shrewdly surmised, from Loureiro's description, that *Boerhavia* Linn. was the genus involved with the bracts erroneously described as representing the calyx. Loureiro's type is fortunately extant, *Boerhavia* is the genus represented, and an examination of it proves that Bentham's surmise was correct. Below are given a few examples of the actual application of the principle of elimination.

In 1790 *Gaura chinensis* Lour. was described, the habitat and locality being indicated as "inculta Cantone Sinarum." *Gaura* belongs in the Onagraceae, strictly a North American genus except as one species has been spread in cultivation. Loureiro's description is fortunately ample and with excellent detail. It manifestly does not apply to any onagraceous plant known from China. What species is there in the vicinity of Canton in southeastern China that conforms to Loureiro's description? There is only one, and this is *Halorhagis scabra* (Koenig) Benth. (*Goniocarpus scaber* Koenig, 1805) = *Halorhagis chinensis* (Lour.) Merr. of the

Halorhagaceae. An even more striking case is *Drosera umbellata* Lour. (1790), amply and accurately described and indicated as occurring in "China," which is not too definite a locality. The only plant species known from all of China that conforms to Loureiro's excellent description is the primulaceous *Androsace saxifragifolia* Bunge (1833) = *Androsace umbellata* (Lour.) Merr. One can readily understand the chagrin and vexation of modern botanists who monographed the Halorhagadaceae and the Primulaceae because these names were overlooked. Neither would have the slightest reason for searching in the Onagraceae or the Droseraceae for possible descriptions that he should consider, and they cannot be blamed for the oversight. Here two currently used specific names accepted in our latest monographic treatises are now replaced by earlier ones.

It is by no means always that a currently accepted name is replaced when the status of some doubtful species is determined. Thus take the case of *Rhamnus lando* Llanos (1880). From the reasonably ample description it is clear that no rhamnaceous plant was involved. The type was from Bulacan Province, Luzon, in the Philippine Islands. I must confess that when I took up this case I had no idea as to what family was represented. Here was a plant described as being scandent, woody, and *spiny*, its leaves acid to the taste and actually eaten by the natives. The specific name was taken from the Tagalog plant name *lando*. Here the clue to the solution of the problem came through the native name, for in the general region whence the Llanos specimen came the name *lando* is still used for and limited to this species; the plant does have acid leaves that are actually eaten by the natives; and it is to a certain degree "spiny" in that the basal portions of certain branches persist as spine-like organs. I had not thought of the Myrsinaceae as even a possible family for *Rhamnus lando* Llanos for I did not then know of any *spiny* myrsinaceous plant and I did not know that any representative of the family actually had acid edible leaves. *Rhamnus lando* Llanos (1880) proves to be a synonym of *Embelia philippinensis* A. DC. (1844).

As striking as this is the supposedly cistaceous *Helianthemum triflorum* Blanco (1845), which, on the basis of the original description, plus the application of the principle of elimination, and a consideration of native names, proves unquestionably to be the same as the tiliaceous *Grewia stylocarpa* Warb. = *Microcos stylocarpa* (Warb.) Burret, and not the theaceous *Archytaea alternifolia* (Vahl) Hochr., to which it had been erroneously reduced; no representative of the latter genus is known to occur in the Philippines, while *Microcos stylocarpa* (Warb.) Burret is very common in the regions covered by Blanco's work.

Even when it comes to totally inadequate original descriptions, where it is reasonably clear that the entity was placed in the right family and also reasonably close to its proper genus, it is again surprising how often such a species can definitely be placed by individuals familiar with a local flora. A classical example of this

is *Adelia papillaris* Blanco (1845) for all that Blanco said regarding this new species was: "Adelia de pezones. Arbolitos dioicos con las cagillas cubiertas no de barbas sino de pezones cortos. Guadalupe." Admittedly this is a hopelessly short description for the closet botanist unfamiliar with a flora or with a particular region. Yet one may visit Guadalupe today, which is only a few miles from Manila, where he will find in abundance and within a stone's throw of the ruined *convento* of the Augustinian Order, of which Father Blanco was a member, and a place that he frequently visited, a dioecious shrub whose capsules are covered with short nipple-like excrescences, not bearded as in certain other species that Blanco placed in *Adelia* (*Mallotus*, *Macaranga*); and incidentally this species is the only one of the entire group that grows anywhere near Guadalupe. Closer home I personally do not hesitate in following Fernald in accepting such very briefly characterized species as *Stillingia fruticosa* Bartr. = *Sebastiania fruticosa* (Bartr.) Fernald, *Quercus incana* Bartr. (*Q. cinerea* Michx.), and *Heracleum maximum* Bartr. (*H. lanatum* Michx.), even when acceptance of the earlier name may displace a long used binomial.

THE APPLICATION OF THE PRINCIPLE OF ELIMINATION AS APPLIED TO RAFINESQUE PROBLEMS

Returning to the Rafinesque scene, the reader is referred to a series of papers by Professor M. L. Fernald that have appeared in recent volumes of *Rhodora*, in which he has critically discussed various Rafinesque species and in a number of cases accepted Rafinesque's names as having priority, reducing currently used but later names of other authors to synonymy. Doubtless this procedure will make certain taxonomists writhe, but after all Fernald has merely accomplished what they or their predecessors should have done. Essentially in these studies he has applied this principle of elimination. Examples are *Xyris albiflora* Raf., 1840 (*X. pallescens* Small, 1903); *Luzula acuminata* Raf., 1840 (*L. saltuensis* Fernald, 1903); *Convallaria montana* Raf., 1840 (*C. globosa* Greene, *C. majuscula* Greene, 1908); *Trillium flexipes* Raf., 1840 (*T. declinatum* Gleason, 1906, *T. gleasoni* Fernald, 1908); *T. cuneatum* Raf., 1840 (*T. hugeri* Small, 1903); *T. lancifolium* Raf., 1840 (*T. lanceolatum* Boykin, 1879); *T. maculatum* Raf., 1840 (*T. underwoodii* Small, 1897); *Ammannia teres* Raf., 1840 (*A. koehnei* Britton, 1891); *Hydrolea uniflora* Raf., 1840 (*H. affinis* A. Gray, 1867); *Lycopus amplexans* Raf., 1840 (*L. sessiliflorus* A. Gray, 1870); *Spiranthes lacera* Raf., 1833; *S. montana* Raf., 1833 (*S. ovalis* Lindl., 1840), *S. tuberosa* Raf., 1833 (*S. beckii* Lindl., 1840); *Goodyera oblongifolia* Raf., 1833 (*Spiranthes decipiens* Hook., 1839, *Goodyera menziesii* Lindl., 1840, *G. decipiens* F. T. Hubb., 1923); *Dentaria grandiflora* Raf., 1833 (*D. macrocarpa* Nutt., 1838); and *Sanguisorba stipulata* Raf., 1833 (*S. sitchensis* C. A. Mey., 1856, *S. latifolia* Coville, 1896). There are fairly numerous other examples already published and doubtless a considerable number of similar

cases that will have to be decided on their merits by future investigators.

In those cases where Rafinesque described an inordinate number of new species from such a region as eastern North America, where modern investigators on the basis of intensive study, extensive field knowledge, and very ample collections of well prepared material have been able to differentiate only two or three species, reductions are relatively simple in spite of Rafinesque's brief data. Thus consider Rafinesque's own genus *Clintonia* where he actually published 20 binomials and 17 varieties, or the genus *Dodecatheon*, with 17 species. In *Clintonia* but two distinct species are currently recognized for the entire region covered by Rafinesque, so that most of his names would fall as synonyms of *C. borealis* (Ait.) Raf., fewer as synonyms of *C. umbellulata* (Michx.) Torr. In *Dodecatheon* from the Northeastern United States to Virginia, Illinois, Missouri and Arkansas Rafinesque inadequately characterized 17 species; and further to complicate the picture he, in 1840, accepted the generic name *Meadia* Mill. for the same group and published under it fifteen new binomials and five varietal names, two of the species being from as far afield as Siberia and one from Oregon. In most of the eastern United States but a single species occurs, *D. meadia* Linn. Thus it can rather safely be assumed that most of Rafinesque's 17 species of this genus and most of his 15 names in *Meadia* should be placed as synonyms of the Linnaean species. One might suspect, however, that possibly the name of such "species" as *D. frenchii* (Vasey) Rydb., *D. radiculatum* Greene, *D. hugeri* Small, and *D. brachycarpa* Small might be antedated by some of those proposed by Rafinesque although it would be rather difficult to prove just what Rafinesque was trying to characterize because of his sketchy descriptions.⁵⁰ In the larger more complex genera such as *Rosa*, *Trillium*, and numerous others the task of determining the status of a Rafinesque entity becomes more difficult.

Among recent applications of this principle of elimination, as applied to inadequately described species of early American authors, including Rafinesque, may be cited the following illustrations. In 1934 Van Ooststroom⁵¹ published an excellent treatment of the genus

Evolvulus. At the end he lists five species that he considered to be of doubtful status, among these, *Evolvulus cuneifolius* Raf. The type of the latter was from the pine barrens of New Jersey, the flora of this region being a characteristic but poor one. When the *Evolvulus* paper reached me I asked Doctor Harold E. Moldenke to examine Rafinesque's description in the light of his intimate knowledge of the New Jersey pine barrens flora, and he reported that there was only one species in the region that conformed to Rafinesque's description and that this was *Stylisma pickeringii* (M. A. Curtis) A. Gray (*Convolvulus pickeringii* M. A. Curtis, *Breweria pickeringii* A. Gray, *Bonamia pickeringii* A. Gray). In this case the M. A. Curtis description happened to have been published one year before that of Rafinesque. Here Rafinesque merely placed his "new species" in the wrong genus.

Adnaria odorata Raf. Fl. Ludovic. 56. 1817, was a new genus and species proposed by Rafinesque on the basis of Robin's cursory description of *Campanula* 2 Rob. Voy. 3: 422. 1807, which Rafinesque, who saw no specimens, placed in the Vacciniaceae between *Vaccinium* and *Oxycoccus*. In 1891 O. Kuntze erroneously replaced *Gaylussacia* H.B.K. (1818) by *Adnaria* Raf. (1817) transferring about fifty specific names from the former to the latter. But Doctor Camp⁵² has recently shown on the basis of field work in Louisiana at the proper season that the only vernal flowering shrub in the region explored by Robin (and occurring in the indicated habitat) that conforms to the latter's reasonably ample but cursory description is *Styrax americana* Lam. Thus it is that *Adnaria odorata* Raf. instead of being an ericaceous plant as most botanists have thought, proves to be a styracaceous one. From Robin's originally placing the species in the Campanulaceae and from the fact that Rafinesque, misled by the original descriptive data, placed it with equal error in the Ericaceae, one may be mildly surprised to find that both were dealing with a representative of the Styracaceae.

In the same paper and also on the basis of a study of the Rafinesque and Robin descriptions supplemented by the necessary local field work, Doctor Camp has definitely shown that the previously unplaced *Arbutus obtusifolius* Raf. Fl. Ludovic. 55. 1817 is nothing but the well-known *Vaccinium arboreum* Marsh. Arb. Am. 157. 1785. One could cite very many additional cases where Rafinesque's often or even usually inadequate descriptive data studied in connection with a knowledge of local field conditions makes the solution of a Rafinesque problem not only possible but positive.

One might query of what importance is this? I merely observe that in the interest of reasonable stability in nomenclature, five generic names were more or less involved (or at least under suspicion) in reference to a proper interpretation of Rafinesque's generic name *Adnaria*, these being *Adnaria* Raf. (1817), *Gaylussacia*

⁵⁰ Fassett, N. C. *Dodecatheon* in Eastern North America. Am. Midl. Nat. 31: 455-486. fig. 1-18. 1944, recognized but two species for the entire region, *D. meadia* Linn., with seven varieties and forms, and *D. amethystinum* Fassett. He dismissed Rafinesque's attempt at establishing species thus: "The 14 species of *Dodecatheon* described by Rafinesque, Atl. Jour. 1: 179-180. 1833, are based primarily on shape of leaves. They are quite unidentifiable from the descriptions and are probably all *D. meadia*. The only possibility of there being any prior name in the group is the remote chance of one of these names belonging to *D. amethystinum*." So it is perhaps better for these Rafinesque names to write here R.I.P., even if Fassett named and characterized a second species of *Dodecatheon* for the extensive region he covered as late as 1944.

⁵¹ Van Ooststroom, S. J. A Monograph of the Genus *Evolvulus*. Meded. Bot. Mus. Herb. Rijksuniv. Utrecht 14: 1-267. 1934.

⁵² Camp, W. H. Studies in the Ericales: the Search for *Adnaria odorata* Raf., and *Arbutus obtusifolius* Raf. Castanea 6: 80-83. 1941.

H.B.K. (1818), *Decachaena* Torr. & Gray (1847), *Lasiococcus* Small (1933), and *Buxella* Small (1933). In reference to the identity of *Arbutus obtusifolius* Raf. under suspicion were *Desmothamnus lucidus* (Lam.) Small, *Pieris nitida* auctt., *Neopieris nitida* (Bartr.) Britton, and *Lyonia nitida* (Bartr.) Fernald.

Equisetum praealtum [prealtum] Raf. *Fl. Ludovic.* 12. 1817 is now a generally accepted binomial among American botanists for a very widely distributed North American species that later (1844) was described by A. Braun as *E. robustum* A. Br., both specific names being excellent descriptive ones for the species. The basis of Rafinesque's short diagnosis was Robin's cursory description, *Voy. Louis.* 3: 330. 1807, of his: "Prêle (equisetum). Une très grande espèce croît de long du fleuve, occupe en touffes de larges places: elle s'élève jusqu'à cinq à six pieds. Ses tiges sont de la grosseur du doigt, nues, scabres, fistuleuses; les gaines, noirâtres, légèrement crénelées, ont la forme d'une couronne. Cette plante a beaucoup de rapport avec notre prêle d'hiver; elle est d'une grande utilité pour le bétail dans l'hiver. Les menuisiers l'emploient aussi pour polir le bois."

While this is not a formal botanical description, yet Robin does give certain characters of the species and correctly compares it with the European *Equisetum hyemale* Linn., with which also various American botanists have confused it by, at times, accepting the latter binomial as the proper one for the American form. Rafinesque's technical Latin diagnosis with supplementary data in English is, in this case, an excellent translation of Robin's statement. The species is, incidentally, the only *Equisetum* known from those parts of Louisiana that Robin explored, and is characteristically abundant in alluvial soil along the Mississippi River today. There can be no doubt as to what species was intended in this case, and there is hence every reason for maintaining Rafinesque's specific name. In following up the history of this species we note that in a later description of *Equisetum robustum* A. Br. *Verh. Zool. Bot. Ges. Wien* 12: 1249. 1862, Doctor Braun placed *E. praealtum* Raf. (1817), as a doubtful synonym of *E. robustum* A. Br. One cannot from comparing the descriptions alone—the finished exact one of A. Braun and the very incomplete and inadequate one of Rafinesque—settle the matter of specific identity of the two. In reducing *E. robustum* A. Br. as a synonym of the earlier *E. praealtum* Raf. we do not in any sense censure A. Braun, for at that time too little was known about the occurrence of *Equisetum* species in southern Louisiana to be positive as to the identity of the very sketchy described Rafinesque species. Today we can safely say that the two are identical.

Rafinesque attempted to cover an extraordinarily wide field in botany, for his published work touches not only all the continents but also most of the characteristic floral regions of the world. Thus it is that any author who may become intrigued with trying to decipher what Rafinesque meant by a certain name and

description may be handicapped at the beginning by his own lack of detailed knowledge of this or that flora. Examples of the publications that actually apply to most parts of the world are the *Flora Telluriana* (1837-38), *Sylva Telluriana* (1838), and *Autikon Botanikon* (1840). One also encounters many difficulties when one considers works that were basically limited to certain restricted parts of the world, such as the *New Flora of North America* (1836-38), the *Medical Flora; or Manual of the Medical Botany of the United States of North America* (1828-30), the *Alsographia Americana* (1838), and many of his shorter papers published in periodical literature.

PROBLEMS OF THE FLORULA LUDOVICIANA

There is one work, however, where important results might accrue if some strategically located botanist interested in field work would make an intensive study of Rafinesque's *Florula Ludoviciana; or Flora of the State of Louisiana* 1-178. 1817, and Robin's *Flore Louisianaise* (1807) on which the later Rafinesque work was based. Here one would of necessity have to acquire an intensive knowledge of the present day flora of southern Louisiana. He should attempt to follow Robin's itinerary, collecting here and there in the habitats and at the seasons the latter indicates. Only the southern part of the state and certain adjacent parts of Florida are involved. I have above indicated how well this combination of field knowledge and a study of the original descriptions works out in practice, with the Camp consideration of *Adnaria odorata* Raf. and *Arbutus obtusifolius* Raf. mentioned above.

Rafinesque was justly subjected to very severe criticism for publishing his *Florula Ludoviciana*, and it is, of course, to his distinct discredit that he sponsored such a work. He had no specimens for examination, but had to depend entirely on the rather cursory descriptions of Robin.⁵³ This was the French text of his *Flore Louisianaise, ou Description des Plantes qui ont été observées par l'Auteur, dans ses voyages à Louisiane, classées selon la Méthode de Jussieu*. Robin apparently had a reasonably good working knowledge of botany, although Rafinesque did not appear to think so, considering him to have been a mere observer and collector.

Robin arranged his species in accordance with Jussieu's classes and orders, the entries being under their French names, often with a Latin generic name added. It is only occasionally that he also cited binomials, but none of those that he used were new. The work was not planned as a descriptive "flora" but apparently it was the hope of the author that it might be of value to travellers. The descriptions are frankly cursory, sometimes reasonably ample, sometimes short or even very short. Economic uses, if known, are usually indicated. He used Dumont de Courset's *Le botaniste cultivateur* (1802) as his chief reference work.

⁵³ Robin, C. C. *Voyages dans l'intérieur de la Louisiane, de la Floride occidentale, et dans les îles de la Martinique et de Saint-Domingue.* 3: 311-538. 1807.

Probably no botanist who ever lived, other than Rafinesque, would have even dreamed of preparing a descriptive technical flora based wholly on the Robin cursory descriptions, yet this is what Rafinesque unfortunately did. The feeling was so strong against him that his contemporaries apparently refused to recognize the validity of publication of his numerous new genera and new species, for in Robin's work Rafinesque discovered no less than thirty "new genera" and one hundred ninety-six "new species," for which he published technical names. Most of these genera and species have no standing today, other than as synonyms of earlier described entities, as far as Rafinesque's successors have succeeded in determining the status of this or that genus or species. Most of the genera have been accounted for but by no means all of the proposed new species. Some of the new genera, such as *Agoseris* Raf., *Ratibida* Raf., *Erechtites* Raf., and *Serinia* Raf. and a few of his proposed new species, such as *Equisetum praealtum* Raf., are currently accepted by all authors.

Rafinesque admits (p. 8) that the work of revision and translation proved to be an arduous task "owing to the numerous misnames and errors of the author, who does not appear to have been a professed Botanist, but a mere observer and collector." With his usual optimism as to new genera and new species still to be discovered in Louisiana he says (p. 4): "should new genera and species exist yet, in the same proportion as in this *Florula*, more than 100 new genera and 700 new species will repay their [i. e., those who might continue field work in Louisiana] exertions." How fortunate we are that Rafinesque's plea for additional collections of Louisiana plants met with so little response!

He further admitted (p. 8-9) that in some instances Robin provided no descriptions of the plants he mentioned and that in other cases his descriptions were "too short, or not characteristic; it was then merely by presumption, and with doubt that the real names could be cited." Yet he did not hesitate to becloud the issue by proposing new binomials on the slightest pretext. Thus *Amorpha tomentosa* ? Raf. Fl. Ludovic. 105. 1817 is thus characterized: "*Amorpha* 2, Rob. p. 505. A doubtful species, of which Robin only mentions its being tomentose: probably similar to the foregoing [*Amorpha lutea* ? Raf.] in other characters"; and for *A. lutea* Raf. he naïvely observes: "Perhaps not an *Amorpha*." Robin's whole statement regarding his "*Amorpha* 2" is "*celle-ci est tomenteuse*," most certainly a slim basis for a new binomial particularly when we do not even know and cannot prove that the species with which it was compared was even a representative of the genus *Amorpha*.

TORREY AND GRAY'S ATTITUDE

As noted above Rafinesque was subjected to very severe and eminently deserved criticism for perpetrating his *Florula Ludoviciana*. Thus Torrey and Gray, *Fl. N. Am.* 1: 86. 1838, at the end of their discussion of *Cardamine*, state: "*C. reflexa* and *C. angustifolia* Raf.,

Fl. Ludov., having been founded upon the vague popular descriptions by Robin of plants which Rafinesque never saw, and of which he knew nothing whatever, of course cannot be admitted even to the rank of doubtful species." Here, of course, they erred, for Rafinesque's publications of new genera and new species in this case are just as valid, *as to publication*, as are those of any author, when, for example, the binomial was based wholly on a pre-Linnaean description. We may heartily approve the Torrey and Gray statement and wish that we might eliminate other Rafinesque enigmas so easily, but we are supposed to follow certain approved rules of procedure.

Rafinesque, two years later, published a review of the first two parts of the Torrey and Gray *Flora of North America*, *Good Book* 37-44. 1840. His response to the passage quoted above was that a double error was implied (p. 42):

"I have seen some plants of Robin, and of those not seen, I know a great deal more than some of Linneus, Wil[?]denow, and Decandolle (and even Torrey) not well described, while many of the descriptions of Robin are as good as those of Lamarck, but being in French, they are not understood by english botanists, while my Latin translation in *Florula Ludoviciana* is overlooked."

Somewhat earlier, *Herb. Raf.* 18. 1833, Rafinesque states:

"I have been reproached wrongly to have published my *Florula Ludoviciana* out of Robin, without specimens; but Gronovius did so with Clayton [not true!] and Wil[?]denow with Loureiro [Willdenow merely reprinted the Loureiro work without changes]. Robin's herbarium may be seen in Paris. . . . I have now some of Robin's plants in my Herbarium, and Dr. Hart found many."

DOCTOR CALL'S OPINION

Doctor Call⁵⁴ has given this matter some consideration. He says:

"The descriptions of Robin, as he himself states, were all based upon living plants; he made no collections; nor were his notes submitted to any competent botanist. That he actually saw the plants he indicates and to which he gave the French provincial names, is without question the fact, but he nowhere describes these plants technically. Nor is it likely that he possessed the ability to do so. The Latin diagnoses of Rafinesque, therefore, must be regarded as pure fabrications which have neither scientific value nor authority. His book takes its proper place as a literary curiosity; it will, at the same time remain a monument to the most foolish episode in his [Rafinesque's] botanical career."

We may agree with Doctor Call that "taken altogether the volume is a most curious botanical *olla podrida*." Nevertheless Robin's descriptions, although cursory, are in very many cases sufficient for working botanists to determine from them just what genera and species are involved; and Rafinesque's more technical descriptions, which were based on Robin's cursory ones, remain to be considered by those botanists involved in a study of the flora of Louisiana if systematic botanists continue

⁵⁴ Call, R. E. The Life and Writings of Rafinesque 106. 1905.

to attempt to account for all published generic names and binomials.

In spite of Call's statement I did attempt, without success, to locate possible Robin specimens. Lasèque records nothing from Robin in the Delessert herbarium, and Doctor F. Gagnepain informs me that neither he nor any of his associates have ever observed any Robin specimens in the Paris herbarium. An actual examination of all of the specimens in certain genera that I suggested to him yielded only negative results. One can only conclude that the proper interpretation of Rafinesque's statement "I have seen some plants of Robin" merely means that he had seen Louisiana specimens collected by others that he identified as representing Robin entities. Robin, *Voy. Louis.* 3: 321. 1807, says regarding his descriptions: "Elles ont été faites sur les lieux, au milieu des bois et des prairies et toujours en présence de l'objet que je décrivais." There is no evidence in this statement, or elsewhere in his work, that he prepared actual botanical specimens to represent the plants that he described for later study by himself or by anybody else.

In my own attempts to place Rafinesque entities based on Robin's descriptions I had concluded that often, perhaps even usually, one can gain a more definite idea of what Robin was actually trying to characterize from the original French version than from Rafinesque's more technical descriptions based on Robin's cursory ones. I note that Doctor Camp had reached the same conclusion earlier, stating the case thus: "I suggest to those taxonomists who have difficulty in interpreting the material described by Rafinesque in his *Florula Ludoviciana*, that they refer to the source of these descriptions: Robin *Flore Lousianaïse*. The original French text may convey a more concise concept of the plant than the somewhat abbreviated (or otherwise modified) Latin text of Rafinesque."

The point of this rather long discussion is that some local botanist in Louisiana, or some representative of an out-of-state botanical institution who may become intrigued with this opportunity for productive field work, could here make a distinctly useful contribution to the systematic botany of the United States. This should take the form of a deliberate and intensive study of both the Robin and the Rafinesque descriptions, and in connection with this an appropriate amount of field work at the proper season or seasons in those parts of southern Louisiana and adjacent parts of Florida which were visited by Robin, in an attempt to apply to these Robin-Rafinesque entities the principle of elimination. It is a foregone conclusion that in most cases the *Florula Ludoviciana* problems posed by Rafinesque's unrealistic work can be solved; but until the necessary field work is accomplished, a considerable number of the Rafinesque names of 1817 must remain in that unsatisfactory category of *species incertae sedis*.

GENERAL SUMMARY

Rafinesque published an inordinate number of poorly prepared papers on descriptive botany, many of which

have been largely ignored by his successors. His work involves the floras of all continents and of the insular areas of both hemispheres. It has been noted that in his various publications there are no less than about 14,400 references to his own genera and species. He proposed more new generic names than any other botanist in the whole history of botanical science, yet only a very small percentage of these, as well as of his very numerous new subgenera or sections, species, and varieties, have ever been recognized by his successors in spite of the, in general, equitable rule of priority. He originated about 2700 new generic names, 335 new subgeneric or sectional names, 6700 new binomials, and 900 new varietal names. Only about 30 of his numerous generic names have been generally accepted, although in recent years those botanists who believe in narrow generic limits have reinstated many additional ones. No less than 90 of Rafinesque's properly published generic names have been eliminated by action of the international botanical congresses in favor of generally used ones proposed by later authors for the same groups. In this index about 70 (or about 160 if we consider proposed generic segregates) additional cases are indicated where Rafinesque generic names could or should be adopted on the basis of strict priority; it is expected that many of these may in the course of time find their places in the official list of rejected names.

A total of about 3300 legitimately published Rafinesque names (740 generic names, 2560 binomials) are not even listed in standard indices. One of the chief reasons for preparing this *Index Rafinesquianus* is that we do have a homonym rule; hence it is highly desirable that all legitimately published generic names and binomials should be at least listed. One may doubt the propriety of accepting new generic names published within the present century in those cases where it can definitely be shown that Rafinesque proposed and legitimately published a different name for the same group from fifty years to a century or more earlier.

Anyone who attempts to evaluate Rafinesque's botanical work on the basis of a thorough examination of his numerous publications can reach only one conclusion. Briefly this is that it is regrettable that he published so much, and so poorly, on the classification of both plants and animals. He was erratic, nonconformic, contentious, positive of the correctness of his views, highly critical of the work of his contemporaries and some of his predecessors, and with advanced views regarding organic evolution and on the multiplicity of both genera and species. Clearly in some respects he was ahead of his time. His judgment was faulty, he being uncontrolled and uncontrollable. Some of his contemporaries and successors even considered him to be insane. Most of his associates and many of his successors judged his published findings to be so erratic that they were generally ignored. There are undoubtedly those even today who will contend that Rafinesque's descriptive work was so sketchy, incomplete, unfinished, and undocumented, that he should continue to be ignored; I am not of this school. It has been rather brutally observed that it is

too bad that Rafinesque did not lose his life in his shipwreck of 1815, in which he lost most of his fortune, his library, herbarium, manuscripts, and notes, all of his accumulations over the preceding two decades. Had this happened modern taxonomists would have been spared the necessity of considering the inordinate number of proposals that Rafinesque made in reference to the classification of both plants and animals and the significance and bearing of the vast number of new names that he published in both botany and zoology. He insisted that posterity would recognize the value of his work, but posterity has been about as harsh in judging this near-genius as were his contemporaries.

Manifestly, working at the time he did on the plants and animals of the then little explored eastern North America, his was the opportunity of equaling or exceeding the standards of the pioneer naturalists who also worked in these fields. That he failed is most manifest. While this volume is based primarily on Rafinesque's work in botany, the net results being in no measure flattering to that strange misguided individual, it seems to be evident that his published work in other fields is just as erratic. In history, in archeology, in comparative philology, in geology, in various fields of descriptive zoology the picture is the same. In certain fields, such as the conchology and ichthyology of the Ohio Valley, his work is basic. But this is due to the fact that he was there the pioneer explorer, and the situation was not confused by much work of earlier specialists; and yet in both of these sciences apparently later specialists ignored his work rather completely and redescribed the Rafinesque genera and species of shells and fishes under other names. On the whole one suspects that most zoologists would agree with the botanists that while we should render to Rafinesque the credit that is due him on the basis of priority in nomenclature, all the descriptive sciences involved would have been better off had Rafinesque published nothing. We cannot undo what has been done in the past; all we can hope to do is to accept, on the basis of priority, Rafinesque's findings when it can positively be determined just what entity he intended by this or that name.

Doctor Call⁵⁵ rather admirably summarizes Rafinesque's unrestricted publication efforts of his later years as follows:

"His articles were usually short, and poorly written; he had lost the facile pen of his earlier life. He yet travelled everywhere, and yet collected largely of every thing that grew. He yet kept note-books, yet planned stupendous literary undertakings. Nothing appeared long to receive his undivided attention. He abandoned a subject after brief treatment only to take it up again and complete his observations thereon at another time. Attempting every phase of human thought, writing on almost every subject known to men, planning but never executing, undertaking only to abandon, distrustful always, ever undefatigable, living only to publish, withholding money from necessities that he might present to the world of scholars some new book or pamphlet, what wonder that the literary efforts of this period are estimated to be of little value!"

It is very difficult to evaluate Rafinesque's contributions to knowledge because of the very broad field covered by him. I have, therefore, confined my efforts largely to a consideration of his botanical work. It is to his credit that he strongly supported the natural classification of both plants and animals at a time when all of his contemporaries in the United States still followed the artificial Linnaean system. He fully realized that the number of distinct plant genera was vastly in excess of the approximately 1440 established by Linnaeus. He was distinctly in advance of the times in his ideas regarding organic evolution. He pioneered in educational methods, and was one of the very first advocates of instruction in agriculture by the establishment of colleges of agriculture, first broaching the idea in 1838 in connection with his proposed Central University of Illinois.⁵⁶ He pioneered, not too successfully, in American archeology, the comparative philology of Amerindian languages, and pre-Columbian American history. He had some concept of the germ theory of disease. His "divital invention" is the basis of the now very widely used coupon system and a patent was granted to him August 24, 1825, for his "Improvement in the mode of making divitals and preventing forgery." His ideas regarding savings banks were apparently lucid and practicable.

Returning to the field of botany one has only to scan his statement regarding the plant geography of North America⁵⁷ to realize that here again he was in the van. Here he distinguished and briefly characterized the Boreal, Canadian, Alleghanian, Floridian, and other major botanical regions of North America, with more local ones such as those of sandy shores, alpine, prairie, and limestone areas, and others. Following the exposition of his ideas on the plant geography of North America is a series of thought-provoking queries as to why there are such striking differences as one notes in comparing various aspects of the North American flora with those of other continents.

One can only conclude that in spite of his numerous faults here was an individual striving to do the best that he could for the benefit of mankind, and one distinctly ahead of the times in which he lived. Perhaps his advanced thinking is an important reason why his contemporaries failed to render proper credit to him for certain of his lucid and manifestly correct conclusions. In his *Life of Travels*, (1836), p. 93, Rafinesque mentions Poulson's 1832 English translation of his work of 1820 on the bivalve shells of the Ohio River and states that the work of other authors who later described the same species as new under their own names without giving him credit was "shameful conduct too much practiced by illiberal vain writers, and from which I have suffered much in Botany and Zoology. But time

⁵⁶ Merrill, E. D. C. S. Rafinesque, with Notes on His Publications in the Harvard Libraries. Harvard Libr. Bull. 2: 5-21. 1948 (p. 11-12).

⁵⁷ Rafinesque, C. S. New Flora of North America 1: 23-28. 1836.

⁵⁵ Op. cit. 121.

renders justice to all at last." One can only conclude, in reference to the last sentence in this quoted passage, that Rafinesque was overoptimistic. Posterity has been about as unappreciative of most of Rafinesque's nomenclatural and other proposals as was contemporaneity. He clearly realized how little his published papers were appreciated by contemporary scientists, and how his nomenclatural proposals were for the most part ignored by them. Pertinent to this situation are the following quoted passages from one of his works published in 1836⁵⁸:

"Whatever may yet be my fate, inaction does not suit me. Resigned to the Divine will, I ever act as a Philosopher in doing the best I can. I have already experienced many misfortunes,

⁵⁸ Rafinesque, C. S. *A Life of Travels*, pp. 113-116. 1836.

shipwrecks and losses; I have often been discouraged, but have never dispaired long. I have tryed to serve mankind; but have often met with ungrateful returns. I have tried to enlarge the limits of knowledge; but have often met with jealous rivals instead of friends. I have tried to instruct and enlighten by my writings; but my pen has often been snatched or compelled to be idle for awhile.

"With a greater fortune, or if I had not lost my estate several times by revolutions and shipwreck, I might have imitated the Humboldt, Linneus, Pallas, Klaproth. . . .

"If I have often gone beyond the actual state of knowledge in my views and opinions, or anticipated on future knowledge, it was with the noble aim of adding my mite to the mental improvement of mankind. If my discoveries and projects have not been speedily admitted, I leave them as a Legacy to those superior minds who will be able to appreciate them, and bestow me the justice often denyed in my days: to the friends of useful sciences, of virtue and peace, to the wise Philanthropists, to the enlightened liberal and impartial men of both hemispheres."

INDEX RAFINESQUIANUS

THALLOPHYTA¹

ALGAE

- ACINARIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:107. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, *descr.*; Am. Monthly Mag. Crit. Rev. 4:208. 1819, *nom.*; Neogen. 4. 1825, *nom.*; Merr. Farlowia 1:251. 1943, *nom.* = ? *Nitella* Agardh (1824), emend. A. Br. (1849).
**coccifera* Raf. Jour. Phys. et Isis von Oken ll.cc., *descr.*; Merr. l.c., *nom.* Ohio, Missouri, Mississippi and Red Rivers = ? *Nitella flexilis* Linn. emend. Agardh (1824).
**flexuosa* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Same rivers.
**latifolia* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Same rivers.
**salicifolia* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Same rivers.
AMASPERMA Raf. Précis Découv. Somiol. 47. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.*; Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:251. 1943, *nom.* = ? *Ceramium* Agardh (1817).
**flocculosa* Raf. Jour. Bot. (Desv.) 4:274. 1814, *descr.* Sicily = seq.
**floculosa* Raf. Précis Découv. Somiol. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
**monilia* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
**torulosa* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
**ANEVRITON* Raf. Specch. Sci. 2:167. 1814, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:251. 1943, *nom.*.
**marginatum* Raf. op. cit. 168, *descr.*; Merr. l.c., *nom.* Sicily.
**APORENIA* Raf. Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:251. 1943, *nom.*.
ARTHRODIA Raf. Specch. Sci. 1:89. 1814, *descr.*; Jour. Bot. (Desv.) 1:235. 1814, *descr.*; op. cit. 4:277 (err. 177). 1814, *nom.*; Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:251. 1943, *nom.* = *Roya* W. & G. S. West (1896), fide Printz = *Closterium* Nitzsch., (1817), *sensu lat.*
**linearis* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
**BRYONOPSIS* Raf. Specch. Sci. 2:89. 1814, *nom. nov.* *Bryopsis* Lamour.; Merr. Farlowia 1:251. 1943, *nom.*, non *Bryonopsis* Arn. (1841).
**CALOSPERMUM* Raf. ex De Toni, Syll. Alg. 3:938. 1895, *nom.*, *sphalm.* = *Colopherrum* Raf. (1814) = *Ectocarpus* Lyngb. (1819), *nom. conserv.*
CATENARIA Raf. Med. Repos. II. 5:351. 1808, *nom.*; Jour. Bot. (Paris) 2:168. 1809, *nom.*; A. Gray, Am. Jour. Sci. 40:226. 1841, *nom.*; Merr. Farlowia 1:251. 1943, *nom.*, non Roussel, 1806, nec Sternb., 1825, nec Benth., 1852 = *Acinaria* Targ. (1819).
**arenaria* Raf. ll.cc., *nom.*; A. Gray, l.c., *nom.*; Merr. l.c., *nom.* Eastern United States.
**concatenata* Raf. ll.cc., *nom.*; A. Gray, l.c., *nom.*; Merr. op. cit. 252, *nom.* Eastern United States.
**vagabunda* Raf. ll.cc., *nom.*; A. Gray, l.c., *nom.*; Merr. l.c., *nom.* Eastern United States.
CERAMIUM Lyngbe.
**callithamnium* Raf. Précis Découv. Somiol. 48. 1814, *descr.*; Merr. Farlowia 1:252. 1943, *nom.* Sicily.
**opacum* Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
**squamosum* Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
CHANTRANSIA DC.
**dichlora* Raf. Précis Découv. Somiol. 47. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.*; Merr. Farlowia 1:252. 1943, *nom.* Sicily.

CHARA Linn.

- *fetidissima* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.*; Merr. Farlowia 1:252. 1943, *nom.* Central Atlantic United States.
**patens* Raf. ll.cc., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
**CHARACIAS* Raf. Anal. Nat. Tabl. Univ. 209. 1815, *nom. nov.* *Chara* Linn.; Fl. Tellur. 1:56. 1836 [1837], *nom.* (*Chara* Linn.); Merr. Farlowia 1:252. 1943, *nom.* = *Chara* Linn.
CHELEDIPOLE Raf. Car. Nuov. Gen. Sp. Sicil. 95. 1810, *descr.*; Merr. Farlowia 1:252. 1943, *nom.*.
**lobata* Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
**tubulosa* Raf. l.c. t. 20. f. 10, *descr.*; Merr. l.c., *nom.* Sicily.
**CHLEDRIPOLE* Raf. Specch. Sci. 2:167. 1814, *nom.*; Merr. Farlowia 1:252. 1943, *nom.* = *praeac.*
COLOPHERMUM Raf. Précis Découv. Somiol. 49. 1814, *descr.*; Jour. Bot. (Desv.) 4:275. 1814, *descr.*; Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:252. 1943, *nom.* = *Ectocarpus* Lyngb. (1819), *nom. conserv.*
**floccosum* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
CONFERVA (Linn.) Lagerh.
**isacella* Raf. Précis Découv. Somiol. 46. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.*; Merr. Farlowia 1:252. 1943, *nom.* Sicily.
**DELOXUS* Raf. Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:252. 1943, *nom.*.
**DERAPHYTUS* Raf. Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:209. 1943, *nom.*.
DICTLEMA Raf. Précis Découv. Somiol. 48. 1814, *descr.*; Jour. Bot. (Desv.) 4:274. 1814, *descr.*; Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:252. 1943, *nom.* = *Microdictyon* Decaisne (1839), fide Printz.
**glomerata* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
**xanthosperma* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
**ECPEXIS* Raf. Atl. Jour. 1:200. 1833, *descr.*; Merr. Farlowia 1:252. 1943, *nom.*.
**fluvialis* Raf. l.c., *descr.*; Merr. l.c., *nom.* Pennsylvania (Schuylkill River).
**ECTOSPERMA* Raf. Précis Découv. Somiol. 47. 1814, *nom.*; Jour. Bot. (Desv.) 4:274. 1814, *nom.*; Merr. Farlowia 1:252. 1943, *nom.*, non Vaucher (1800).
**longiuscula* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
**ECTOSPERMIA* Raf. Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:252. 1943, *nom.* = *praeac.*
**ECTOSTERMIA* Raf. Fl. Tellur. 1:65. 1836 [1837], *nom.*, *sphalm.* = *praeac.*
**ENDONEMA* Raf. Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:252. 1943, *nom.*.
ENDOSPERMA Raf. Car. Nuov. Gen. Sp. Sicil. 91. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:252. 1943, *nom.*.
**aggregata* Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
**globosa* Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
EPISPERMA Raf. Précis Découv. Somiol. 48. 1814, *descr.*; Jour. Bot. (Desv.) 4:274. 1814, *descr.*; Merr. Farlowia 1:252. 1943, *nom.* = *Ceramium* Agardh (1817).
**micramnia* Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
**HELMYTON* Raf. Car. Nuov. Gen. Sp. Sicil. 90. 1810, *descr.*; Merr. Farlowia 1:252. 1943, *nom.* Ut videtur = *Serpicula* (Vermes) vel *Spirobus* (Mollusca).
**glomeratum* Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
**spiralis* Raf. l.c. t. 20. f. 7, *descr.*; Merr. l.c., *nom.* Sicily.
ISOPHLIS Raf. Car. Nuov. Gen. Sp. Sicil. 93. 1810, *descr.*; Merr. Farlowia 1:252. 1943, *nom.*.
**concentrica* Raf. l.c., t. 20. f. 3, *descr.*; Merr. l.c., *nom.* Sicily.
**LAMINARIA* Raf. Med. Fl. 2:221. 1830, *nom.*, *nota*; Merr. Farlowia 1:253. 1943, *nom.*, non Lamx. (Type *Fucus edulis* Stackh.).

¹In this Index an asterisk (*) indicates those genera and binomials that are not entered in standard indices such as *Index Kewensis* and *Index Filicum*. The entry "Raf. ex Jacks*. Ind. Kew." indicates that apparently the name involved was first published in that work. The sign † indicates a correction to *Index Kewensis* entries, and # that the name involved was published by Rafinesque as of subgeneric or sectional rank, not as a generic name.

- ***LEIACINA** Raf. Neogen. 4. 1825, *descr.*; Merr. Farlowia 1:253. 1943, *nom.* = ? *Tolypella* A. Br. (1849).
 ***capitata** Raf. l.c., *descr.* (*Chara capitata* Ell.); Merr. l.c., *nom.* Southeastern United States.
 ***lucida** Raf. l.c., *descr.*; Merr. l.c., *nom.* [Eastern United States].
LEPTORIMA Raf. Car. Nuov. Gen. Sp. Sicil. 94. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:253. 1943, *nom.*
 ***nivea** Raf. Car. Nuov. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***oculata** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***undulata** Raf. l.c. t. 20. f. 4, *descr.*; Merr. l.c., *nom.* Sicily.
LICHITON Raf. Specch. Sci. 2:168. 1814, *descr.*; Merr. Farlowia 1:253. 1943, *nom.*
 ***mamillaris** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***phyteloides** Raf. l.c. *descr.* (*Phytelis tuberculata* Raf.); Merr. l.c., *nom.* Sicily.
 ***tuberculata** Merr. l.c., *nom.*, *sphalm.* = *Phytelis tuberculata* Raf. Sicily.
MERASPERMA Raf. Med. Repos. II. 3:422. 1806, *nom.*; op. cit. 5:350. 1808, *descr.*; Jour. Bot. (Paris) 2:167. 1809, *descr.*; Merr. Farlowia 1:253. 1943, *nom.* = *Oxytrema* Raf. fide Raf. Jour. Phys. Chim. Hist. Nat. 89:107. 1819; Isis von Oken 1820, 1: Lit. Anz. 243. 1820.
 ***bifurcata** Raf. Med. Repos. II. 5:350. 1808, *nom.*; Jour. Bot. (Paris) l.c., *nom.*; A. Gray, Am. Jour. Sci. 40:226. 1841, *nom.*; Merr. l.c., *nom.* Pennsylvania.
 ***cylindrica** Raf. ll.cc.; A. Gray, l.c., *nom.*; Merr. l.c., *nom.* Pennsylvania.
 ***dichotoma** Raf. Med. Repos. II. 3:422. 1806, *nom.*; op. cit. 5:350. 1808, *nom.*; A. Gray, l.c., *nom.*; Jour. Bot. (Paris) 2:167. 1809, *nom.*; Merr. l.c., *nom.* Pennsylvania.
 ***exigua** Raf. op. cit. II. 3:422. 1806, *nom.* Eastern United States.
 ***furcata** Raf. l.c., *nom.* Eastern United States.
 ***MESASPERMA** Raf. Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:253. 1843, *nom.* = *praec.*
 ***MYRIOSIDRUM** Raf. Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:253. 1943, *nom.* = *seq.*
MYRSIDRUM Raf. Car. Nuov. Gen. Sp. Sicil. 97. 1810, *descr.*; Merr. Farlowia 1:253. 1943, *nom.*
 ***bursa** Raf. op. cit. 98, *descr.* (*Alcyonium bursa* Linn.); Merr. l.c., *nom.* Sicily.
 ***clavatum** Raf. l.c. t. 20. f. 12, *descr.*; Merr. l.c., *nom.* Sicily.
 ***dilatatum** Raf. op. cit. 99, *descr.*; Merr. l.c., *nom.* Sicily.
 ***effusum** Raf. op. cit. 98, *descr.*; Merr. l.c., *nom.* Sicily.
 ***ramosum** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***vermiliaria** Raf. l.c., *descr.* (*Lamarckia vermicularia* Oliv.; *Fucus fungosus* Desf.; *Ulva tomentosa* Linn.; *Fucus tomentosus* Spach); Merr. l.c., *nom.* Sicily.
NEMAELECTRA Raf. Neogen. 4. 1835, *descr.*; Merr. Farlowia 1:253. 1943, *nom.*
 ***calida** Raf. l.c., *nom.*, "in hot springs"; Merr. l.c., *nom.* [North America].
 ***fuscata** Raf. l.c., *nom.*; Merr. l.c., *nom.*
 ***plumosa** Raf. l.c., *nom.*; Merr. l.c., *nom.*
NOSTOCUS Raf. Anal. Nat. Tabl. Univ. 208. 1815, *nom.* nov. [*Nostoc* Vauch.]; Merr. Farlowia 1:253. 1943, *nom.*
OOSPERMUM Raf. Précis Découv. Somiol. 48. 1814, *descr.*; Jour. Bot. (Desv.) 4:274. 1814, *descr.*; Merr. Farlowia 1:253. 1943, *nom.* = *Elachista* Duby (1832), *nom. conserv.*
 ***nigrum** Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Sicily.
ORIMANTHIS Raf. Car. Nuov. Gen. Sp. Sicil. 95. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:253. 1943, *nom.*
 ***foliacea** Raf. Car. Nuov. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***vesiculata** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
OXYTREMIA Raf. Jour. Phys. Chim. Hist. Nat. 89:107. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, *descr.*; Merr. Farlowia 1:253. 1943, *nom.* [Merasperma Raf., 1806].
PEXISPERMA Raf. Car. Nuov. Gen. Sp. Sicil. 89. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:253. 1943, *nom.* = *Tetraspora* Link (1809), fide Printz.
 ***amplectens** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***depressa** Raf. Précis Découv. Somiol. 46. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.*; Merr. l.c., *nom.* Sicily.
 ***dichrosperma** Raf. Car. Nuov. Gen. Sp. Sicil. 89. 1810, *descr.*; Merr. l.c., *nom.* Sicily.
 ***lutescens** Raf. l.c. t. 20. f. 1, *descr.*; Merr. l.c., *nom.* Sicily.
 ***sputo** Raf. l.c. t. 20. f. 2, *descr.*; Merr. l.c., *nom.* Sicily.
 ***truncata** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
PHAXANTHA Raf. Car. Nuov. Gen. Sp. Sicil. 99. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
 ***lichenoides** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
PHLYCTIS Raf. Car. Nuov. Gen. Sp. Sicil. 91. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.* (*sphalm. Phlyctis*).
 ***bifurcatus** Raf. op. cit. 92, *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
 ***cervicornis** Raf. l.c., *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
 ***cuneiformis** Raf. l.c., *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
 ***dichotomus** Raf. op. cit. 91, *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
 ***latifolius** Raf. op. cit. 92, *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
 ***polypodioides** Raf. l.c., *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
 ***subfistulosus** Raf. l.c., *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
 ***undulatus** Raf. l.c., *descr.*; Merr. l.c., *nom.* (*sphalm. Phlyctis*). Sicily.
PHORACIS Raf. Car. Nuov. Gen. Sp. Sicil. 99. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.* = *Grateloupia* Agardh (1822).
 ***filicina** Raf. l.c., *descr.* (*Fucus filicinus* Jacq.?) ; Merr. l.c., *nom.* Sicily.
PHYCERUS Raf. Specch. Sci. 2:168. 1814, *descr.*; Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
 ***bifidus** Raf. Specch. Sci. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
PHYSIDRIA Raf. Fl. Tellur. 1:60. 1836 [1837], *nom.* = *seq.*
PHYSIDRUM Raf. Car. Nuov. Gen. Sp. Sicil. 96. 1810, *descr.*; Fl. Tellur. 1:56. 65. 1836 [1837], *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
 ***aggregatum** Raf. op. cit. 97, *descr.*; Merr. l.c., *nom.* Sicily.
 ***hyalinum** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***pisiforme** Raf. op. cit. 96, *descr.*; Merr. l.c., *nom.* Sicily.
 ***rubescens** Raf. op. cit. 97, t. 20. f. 11, *descr.*; Merr. l.c., *nom.* Sicily.
PHYSOTRIS Raf. Car. Nuov. Gen. Sp. Sicil. 97. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
 ***capitata** Raf. Précis Découv. Somiol. 46. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.*; Merr. Farlowia 1:254. 1943, *nom.* Sicily.
 ***glomerata** Raf. Car. Nuov. Gen. Sp. Sicil. 97. 1810, *descr.*; Merr. l.c., *nom.* Sicily.
PHYSUDRUM Raf. Fl. Tellur. 1:34. 1836 [1837], *nom.*, *sphalm.* = *Physidrum* Raf.
PHYSYDRUM Raf. Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.* = *Physidrum* Raf.
***PHYTELIS** Raf. Car. Nuov. Gen. Sp. Sicil. 93. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
 ***atra** Raf. op. cit. 94, *descr.*; Merr. l.c., *nom.* Sicily.
 ***granulata** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***macrocarpa** Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
 ***radiata** Raf. op. cit. 93, t. 20. f. 5, *descr.*; Merr. l.c., *nom.* Sicily.
 ***sulcata** Raf. op. cit. 94, t. 20. f. 6, *descr.*; Merr. l.c., *nom.* Sicily.
 ***tuberculata** Raf. l.c. ("tuberculata"), *descr.*; Merr. l.c., *nom.* Sicily = *Lichiton phyteloides* Raf. fide Raf.
PHYXALIMUM Raf. Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
***PLAXARTHURUS** Raf. Anal. Nat. Tabl. Univ. 209. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
***PORULA** Raf. Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*
POTARCUS Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *descr.*; op. cit. 4:208. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:107. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, *descr.*; Merr. Farlowia 1:254. 1943, *nom.*
 ***bicolor** Raf. ll.cc., *descr.*; Merr. l.c., *nom.* Ohio River.
SCLERNAX Raf. Car. Nuov. Gen. Sp. Sicil. 90. 1810, *descr.*; Anal. Nat. Tabl. Univ. 208. 1815, *nom.*; Merr. Farlowia 1:254. 1943, *nom.*

- **lutescens* Raf. Car. Nuov. Gen. Sp. Sicil. l.c., nom.; Merr. l.c., nom. Sicily.
 **truncata* Raf. l.c., descr.; Merr. l.c., nom. Sicily.
 ***SIPHORUS** Raf. Car. Nuov. Gen. Sp. Sicil. 96. 1810, descr.; Anal. Nat. Tabl. Univ. 208. 1815 nom.; Merr. Farlowia 1:254. 1943, nom.
 **alternus* Raf. Car. Nuov. Gen. Sp. Sicil. l.c. t. 20. f. 9, descr.; Merr. l.c., nom. Sicily.
 **fasciculatus* Raf. l.c., descr.; Merr. l.c., nom. Sicily.
 ***SIPHYTUS** Raf. Car. Nuov. Gen. Sp. Sicil. 95. 1810, descr.; Merr. Farlowia 1:255. 1943, nom.
 **filiformis* Raf. op. cit. 96, descr.; Merr. l.c., nom. Sicily.
 **hexodon* Raf. l.c., descr.; Merr. l.c., nom. Sicily.
 **obconicus* Raf. l.c. t. 20. f. 8, descr.; Merr. l.c., nom. Sicily.
SPERMIPOLE Raf. Car. Nuov. Gen. Sp. Sicil. 88. 1810, descr.; Anal. Nat. Tabl. Univ. 208. 1815, nom.; Merr. Farlowia 1:255. 1943, nom.
 **effusa* Raf. Car. Nuov. Gen. Sp. Sicil. 89. 1810, descr.; Merr. l.c., nom. Sicily.
STEREONEMA Raf. Anal. Nat. Tabl. Univ. 209. 1815, nom.; Merr. Farlowia 1:255. 1943, nom.

- ***STYPNION** Raf. Ann. Nat. Ann. Synop. 16. 1820, descr.; Neogen. 4. 1825, nom. sub. *Nemalectra* Raf.; A. Gray, Am. Jour. Sci. 40:235. 1841, descr.; Merr. Farlowia 1:255. 1943, nom.
 **fluitans* Raf. Ann. Nat. Ann. Synop. l.c., descr.; A. Gray, l.c., descr.; Merr. l.c., nom. Ohio River.
VAUCHERIA DC.
 **dichotoma* Raf. Précis Découv. Somiol. 47. 1814, descr.; Jour. Bot. (Desv.) 4:274. 1814, descr.; Merr. Farlowia 1:255. 1943, nom. Sicily.
 **flexuosa* Raf. l.c., descr.; Merr. l.c., nom. Sicily.
 **stricta* Raf. l.c., descr.; Merr. l.c., nom. Sicily.
 ***VERMILARA** Raf. Anal. Nat. Tabl. Univ. 20. 1815, nom.; Merr. Farlowia 1:255. 1943, nom. (Vermilaria).
VOLVOX Vauch.
 **bipunctatum* Raf. Précis Découv. Somiol. 35. 1814. Sicily.
 **fuscus* Raf. Specch. Sci. 2:69. 1814, descr.; Merr. Farlowia 1:255. 1943, nom. Sicily.
 **ovalis* Raf. l.c., descr.; Merr. l.c., nom. Sicily.
 ***ZONARIA** Raf. Anal. Nat. Tabl. Univ. 208. 1815, nom.; Merr. Farlowia 1:255. 1943, nom.

FUNGI

- ACINOPHORA** Raf. Med. Repos. II. 3:423. 1806, nom.; op. cit. II. 5:355. 1808, nom.; Jour. Bot. (Paris) 2:176. 1809; nom.; Précis Découv. Somiol. 51. 1814, descr.; Jour. Bot. (Desv.) 4:275. 1814, descr.; Anal. Nat. Tabl. Univ. 211. 1815, nom.; Fischer in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 7a:119. 1933, gen. dub.; Merr. Farlowia 1:255. 1943, nom. (*sphalm. Actinophora* Raf.)=*Arachnion* Schwein. (1822).
 **aurantiaca* Raf. Med. Repos. l.c., nom.; Jour. Bot. (Paris) l.c., nom.; Précis Découv. Somiol. l.c., descr.; Jour. Bot. (Desv.) l.c., descr.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. Farlowia l.c., nom. (*sphalm. Actinophora aurantiaca* Raf.). Delaware, Pennsylvania.
ACTIGEA Raf. Précis Découv. Somiol. 52. 1814, descr.; Anal. Nat. Tabl. Univ. 211. 1815, nom.; Med. Fl. 2:222. 1830, nom., nota.; Merr. Farlowia 1:255. 1943, nom.=*Scleroderma* Pers. fide Saccardo;=? *Scleroderma* Pers. fide Fischer.
multifida Raf. Précis Découv. Somiol. l.c., descr.; Merr. l.c., nom. New Jersey=*Scleroderma flavidum* Ell. & Everh. fide Saccardo.
sicula Raf. l.c., descr.; Merr. l.c., nom. Sicily=*Scleroderma geaster* Fries, fide Saccardo.
ACTIGENA Raf. Jour. Bot. (Desv.) 4:276 (err. 176). 1814, descr.; Merr. Farlowia 1:255. 1943, nom.=*praec.*
 **multifida* Raf. l.c., descr.; Merr. l.c., nom. New Jersey=*Actigea multifida* Raf.
 **sicula* Raf. l.c., descr.; Merr. l.c., nom. Sicily=*Actigea sicula* Raf.
 ***ACTYCUS** Raf. Chloris Aetn. 13. 1815, nom.; Merr. Farlowia 1:255. 1943, nom.
 **siculus* Raf. l.c., nom.; Merr. l.c., nom. Sicily.
AECIDIUM Pers.
 **citrinum* Raf. Stat. Gen. Sicil. 28. 1810, nom.; Merr. Farlowia 1:255. 1943, nom. Sicily.
ACTINOPHORA Merr. Farlowia 1:255. 1943, nom.; *sphalm.*=*Acinophora* Raf.
 **aurantiaca* Merr. l.c., nom.; *sphalm.*=*Acinophora aurantiaca* Raf.
AEDYCIA Raf. Med. Repos. II. 5:358. 1808, descr.; Jour. Bot. (Paris) 1:222. 1809, descr.; Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:254. 1943, nom.=*Mutinus* Fries (1849), fide Saccardo.
 **alba* Raf. l.c., descr.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. Pennsylvania.
 **rubra* Raf. l.c., descr.; Merr. l.c., nom. Pennsylvania.
AGARICUS Linn.
 **aterrimus* Raf. Jour. Bot. (Desv.) 1:236. 1813, descr.; Merr. Farlowia 1:255. 1943, nom. Delaware=*Amanita aterrima* Raf.
 **azureus* Raf. l.c., descr.; Merr. l.c., nom. Delaware=*Amanita azurea* Raf.
 **casens* Raf. Casket 1831:423. 1831, nom., nota; Sat. Eve. Post 10(527):[1]. 1831, nom., nota, sub *A. surrectus* Raf.
 **ellipticus* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, nom.; Merr. l.c., nom. Alleghany Mountains or Ohio.
 **mipica* Raf. in M'Murtrie, Sketch. Louisv. 230. 1819, nom.; Merr. l.c., nom. (*sphalm.*=*ellipticus* ?). Kentucky.

- **surrectus* Raf. Casket 1831:423, 1 f. 1831, descr.; Sat. Eve. Post 10(527):[1]. 1f. 1831; Merr. l.c., nom. Philadelphia=*Volvaria* sp.
 ***ALVEOLINUS** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:256. 1943, nom.
AMANITA Pers.
 **aterrima* Raf. Précis Découv. Somiol. 49. 1814, descr.; Jour. Bot. (Desv.) 4:275. 1814, nom.; Merr. Farlowia 1:256. 1943, nom. Delaware=*Agaricus aterrimus* Raf.
 **azurea* Raf. l.c., descr., nom.; Merr. l.c., nom. Delaware=*Agaricus azureus* Raf.
 ***ANASTOMARIA** Raf. Ann. Nat. Ann. Synop. 16. 1820, descr.; A. Gray, Am. Jour. Sci. 40:235. 1841; Merr. Farlowia 1:256. 1943, nom.
 **campanulata* Raf. l.c., descr., A. Gray, l.c., Merr. l.c., nom. New York.
 **dimidiata* Raf. l.c., descr.; A. Gray, l.c., Merr. l.c., nom. New York.
 ***ANNULARIA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:256. 1943, nom.
 ***ASTROCITUM** Raf. Med. Repos. II. 3:423. 1806, nom.; Merr. Farlowia 1:256. 1943, nom.=*Astrycum* Raf.
 **dimidiatum* Raf. l.c., nom.; Merr. l.c., nom. Pennsylvania, New Jersey=*Astrycum dimidiatum* Raf.
 **multifidum* Raf. l.c., nom.; Merr. l.c., nom. Pennsylvania, New Jersey=*Astrycum multifidum* Raf.
 **quinquefidum* Raf. l.c., nom.; Merr. l.c., nom. Pennsylvania, New Jersey=*Astrycum quinquefidum* Raf.
ASTRYCUM Raf. Med. Repos. II. 5:355. 1808, nom.; Jour. Bot. (Paris) 2:175. 1809, nom.; Merr. Farlowia 1:256. 1943, nom.=*Actigea* Raf. fide Saccardo.
 **dimidiatum* Raf. l.c., nom.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. Pennsylvania, New Jersey.
 **multifidum* Raf. l.c., nom.; Gerard, l.c., nom.; Merr. l.c., nom. Pennsylvania, New Jersey.
 **quinquefidum* Raf. l.c., nom.; Merr. l.c., nom. Pennsylvania, New Jersey.
BOLETUS Dill.
 **hematoporus* Raf. ex M'Murtrie, Sketch. Louisv. 230. 1819, nom.; Merr. Farlowia 1:256. 1943, nom.
 **pusillus* Raf. Chloris Aetn. 13. 1815, nom.; Merr. l.c., nom. Sicily.
CEROPHORA Raf. Med. Repos. II. 5:355. 1808, nom.; Jour. Bot. (Paris) 2:176. 1809, nom.; Précis Découv. Somiol. 49. 1814, descr.; Jour. Bot. (Desv.) 4:275. 1814, descr.; Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:256. 1943, nom.=*Hericium* Pers. fide Saccardo.
 **capitata* Raf. Précis Découv. Somiol. 50. 1814, descr.; Jour. Bot. (Desv.) 4:275. 1814, descr.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. New Jersey.
 **clavata* Raf. Med. Repos. II. 5:355. 1806, nom.; Jour. Bot. (Paris) 2:176. 1809, nom.; Précis Découv. Somiol. 49. 1814, descr.; Jour. Bot. (Desv.) 4:275. 1814, descr.; Gerard, l.c., nom.; Merr. l.c., nom. New Jersey.
 **dichotoma* Raf. Med. Repos. et Jour. Bot. (Paris) l.c., nom.; Gerard, l.c., nom.; Merr. l.c., nom. Central Atlantic United States.

CEROPHORA (continued).

- **fastigiata* Raf. Il.cc., nom.; Merr. l.c., nom. Central Atlantic United States.
 **globosa* Raf. Il.cc., nom.; Merr. l.c., nom. Central Atlantic United States.
 **globularis* Raf. ex Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. [Central Atlantic United States].
 **minuta* Raf. Med. Repos. et Jour. Bot. (Paris) Il.cc., nom.; Merr. l.c., nom. Central Atlantic United States.
 **pyriformis* Raf. Il.cc., nom.; Gerard, l.c., nom.; Merr. l.c., nom. Central Atlantic United States.
 **ramosa* Raf. ex Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. [Central Atlantic United States].
 **thamnoideus* Raf. Med. Repos. et Jour. Bot. (Paris) Il.cc., nom.; Merr. l.c., nom. Central Atlantic United States.

CLAVARIA Vail.

- **bicolor* Raf. Med. Repos. II. 5:363. 1808, descr.; Jour. Bot. (Paris) 1:233. 1809, descr.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. Farlowia 1:256. 1943, nom. Virginia.
 **citrina* Raf. Med. Repos. op. cit. 262, descr.; Jour. Bot. (Paris) l.c., descr.; Merr. l.c., nom. Pennsylvania.
 **citrinofusca* Raf. Il.cc., descr.; Gerard, l.c. (*citrina-fusca*), nom.; Merr. l.c., nom. Pennsylvania.
 **driophylla* Raf. Jour. Bot. (Paris) 1:233. 1809, descr.; Merr. l.c., nom.=seq.
 **dryophylla* Raf. Med. Repos. II. 5:363. 1808, descr.; Gerard, l.c., nom.; Merr. l.c., nom. Pennsylvania.
 **lepidorhiza* Raf. Il.cc., descr.; Merr. l.c., nom. Maryland.
 **oxantha* Raf. Jour. Bot. (Desv.) 1:237. 1813, descr.; op. cit. 4:276 (err. 176). 1814, nom.; Précis Découv. Somiol. 51. 1814, descr.; Merr. l.c., nom. Maryland.
 **rubescens* Raf. Il.cc., descr.; Merr. l.c., nom. Pennsylvania.
 **tricolor* Raf. Il.cc., descr.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. Maryland.
COLONNARIA Raf. Med. Repos. II. 3:423. 1806, nom.; op. cit. II. 5:355. 1808, descr.; Jour. Bot. (Paris) 2:176. 1809, descr.; Merr. Farlowia 1:257. 1943, nom.; op. cit. 249-250, nota=Clathrus Mich. fide Saccardo; genus validus fide Fischer in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 7a: 84. 1933 (Lindera G. H. Cunningham, 1931).
truncata Raf. Il.cc., nom.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. Pennsylvania=Clathrus truncatus Bosc, fide Saccardo.
urceolata Raf. Il.cc., nom.; Gerard, l.c., nom.; Merr. l.c., nom. Pennsylvania=Clathrus columnatus Bosc, fide Saccardo.

- ***CYATHELA** Raf. Am. Monthly Mag. Crit. Rev. 4:208. 1819, nom.; Merr. Farlowia 1:257. 1943, nom.
 ***CYATHELLA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Fl. Tellur. 1:56. 1836 [1838], nom.; Merr. Farlowia 1:257. 1943, nom.
 ***CYNICUS** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:257. 1943, nom.
 ***DEDALEA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Med. Fl. 2:201. 1830, nom.; Merr. Farlowia 1:257. 1943, nom.=Daedalea Pers.
DICARPHUS Raf. Med. Repos. II. 3:423. 1806, nom.; op. cit. II. 5:355. 1808, nom. subnud.; Jour. Bot. (Paris) 2:176. 1809, nom. subnud.; Spech. Sci. 1:194. 1814, descr.; Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:275. 1943, nom.=Hydnum Linn., fide Saccardo.
 **rubens* Raf. Il.cc., nom.; Spech. Sci. 1:195. 1814, descr.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom. Pennsylvania.
 ***DICTERIDIUM** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:257. 1943, nom.
DRUPARIA Raf. Med. Repos. II. 5:358. 1808, descr.; Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:257. 1943, nom.=Drupasia Raf.
 **globosa* Raf. Med. Repos. II. 5:358. 1808, descr.; Merr. l.c., nom. Pennsylvania.
 **rosea* Raf. l.c., descr.; Merr. l.c., nom. Delaware.
 **violacea* Raf. l.c., descr.; Merr. l.c., nom. Pennsylvania.
 **volvacea* Raf. ex Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom.; Merr. l.c., nom.
DRUPASIA Raf. Jour. Bot. (Paris) 1:223. 1809, descr.; Merr. Farlowia 1:257. 1943, nom.=praec.=gen. dub. fide Fischer in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 7a:119. 1933.
 **globosa* Raf. l.c., descr.; Merr. l.c., nom. Pennsylvania.

- **rosea* Raf. l.c., descr.; Merr. l.c., nom. Delaware.
 **violacea* Raf. l.c., descr.; Merr. l.c., nom. Pennsylvania.
DYCTICIA Raf. Med. Repos. II. 5:355. 1808, nom.; Jour. Bot. (Paris) 2:176. 1809, nom.; Merr. Farlowia 1:257. 1943, nom.=Clathrus Pers. fide Saccardo; ? fide Fischer.
 **clathroides* Raf. Il.cc., nom. subnud.; Merr. l.c., nom. Delaware.
ENDACINUS Raf. Précis Découv. Somiol. 51. 1814, descr.; Jour. Bot. (Desv.) 4:276 (err. 176). 1814, descr.; Ann. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:257. 1943, nom.=Polysaccum DC. & Desf. fide Saccardo=Pololithus Alb. & Schwein. (1805).
tinctorius Raf. Précis et Jour. Bot. Il.cc., descr.; Merr. l.c., nom. Sicily=Polysaccum pisocarpum Fries, fide Saccardo=Pololithus tinctorius (Pers.) Coker.
 ***ENDAEMATUS** Raf. Spech. Sci. 2:105. 1814, descr.; Merr. Farlowia 1:257. 1943, nom.
 **albus* Raf. l.c., descr.; Merr. l.c., nom. Sicily.
 ***ENDEMATUS** Raf. Anal. Nat. Tabl. Univ. 207. 1815, nom.; Merr. Farlowia 1:257. 1943, nom.=Endaematus Raf.
ENDOCONIA Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, descr.; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, descr.; Merr. Farlowia 1:257. 1943, nom.=Hymomycetae, gen. incert. fide Saccardo.
 **leucomela* Raf. Il.cc., descr.; Merr. l.c., nom. Kentucky.
 **stuposa* Raf. Il.cc., descr.; Merr. l.c., nom. New York.
 ***ENDONIUS** Raf. Am. Monthly Mag. Crit. Rev. 4:208. 1819, nom.; Merr. Farlowia 1:257. 1943.
 ***EPIXYLA** Raf. Med. Repos. II. 3:423. 1806, nom.; Merr. Farlowia 1:258. 1943, nom.
 **clavata* Raf. l.c., nom.; Merr. l.c., nom. Eastern United States.
 **cylindrica* Raf. l.c., nom.; Merr. l.c., nom. Central Eastern United States.
 **lineata* Raf. l.c., nom.; Merr. l.c., nom. Central Eastern United States.
ERIOSPERMA Raf. Med. Repos. II. 5:356. 1808, nom. subnud.; Jour. Bot. (Paris) 2:177. 1809, nom. subnud.; Merr. Farlowia 1:258. 1943, nom.
 **alba* Raf. Il.cc., nom.; Merr. l.c., nom. Pennsylvania.
 **fugax* Raf. Il.cc., nom.; Merr. l.c., nom. Pennsylvania.
 ***EUDACNUS** Raf. ex Merr. Farlowia 1:258. 1943, nom., sphalm.=Endacinus Raf.
 ***FAVARIA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:258. 1943, nom.
GELATINA Raf. Med. Repos. II. 3:423. 1806, nom.; op. cit. 5:356. 1808, descr.; Jour. Bot. (Paris) 2:177. 1809, descr.; Merr. Farlowia 1:258. 1943, nom.=Tremella Dill. fide Saccardo.
 **alba* Raf. Med. Repos. II. 5:356. 1808, nom.; Jour. Bot. l.c., nom.; Merr. l.c., nom. Eastern United States.
 **aurantiaca* Raf. Med. Repos. II. 3:423. 1806, nom.; Merr. l.c., nom. Eastern United States.
 **candida* Raf. l.c., nom.; Merr. l.c., nom. Eastern United States.
 **flava* Raf. l.c., nom.; Merr. l.c., nom. Eastern United States.
 **foetidissima* Raf. op. cit. II. 5:356. 1808, nom.; Jour. Bot. (Paris) 2:177. 1809, nom.; Merr. l.c., nom. Eastern United States.
 **lutea* Raf. Il.cc., nom.; Merr. l.c., nom. Eastern United States.
 **rubra* Raf. Med. Repos. II. 3:423. 1806, nom.; op. cit. 5:356. 1808, nom.; Jour. Bot. (Paris) 2:177. 1809, nom.; Merr. l.c., nom. Eastern United States.
 ***GELATINARIA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, nom.; Merr. Farlowia 1:258. 1943, nom.; non Roussel (1806).
GEMMULARIA Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, descr.; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, descr.; Med. Fl. 2:270. 1830, nom. alt. *Tucalus* Raf.; Atl. Jour. 1:181. 1833, nom. alt. *Tucalus* Raf.; Merr. Farlowia 1:258. 1943, nom.=*Tucalus* Raf. (1830)=*Rugosaria* Raf. (1833)=*Pachyma* Fries (1823).
 **albida* Raf. Atl. Jour. 1:182. 1833, descr.; nom. alt. *Tucalus albidus* Raf.; Merr. l.c., nom. Pennsylvania, Ohio, Kentucky.
 **leviuscula* Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, descr.; Isis von Oken 1: Lit. Anz. 243. 1820, descr.; Atl. Jour. 1:181. 1833, nom. alt. *Tucalus leviusculus* Raf.; Merr. l.c., nom. Virginia, Kentucky.
 **rimosa* Raf. Atl. Jour. 1:181. 1833, descr.; nom. alt. *Tucalus rimosus* Raf.; Merr. l.c., nom. Virginia, North Carolina.

- **rugosa* Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, *descr.*; Atl. Jour. 1:181. 1833, *nom. alt.* *Tucahus rugosus* Raf.; Merr. l.c., *nom.* Maryland, South Carolina.
- ***GEOGLOSSUM** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:258. 1943, *nom.* (an *Geoglossum* Pers.?).
- ***GYMNOPUS** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:258. 1943, *nom.* (an *Gymnopus* Pers.?).
- HECTOCERUS** Raf. Med. Repos. II. 3:423. 1806, *nom.*; Merr. Farlowia 1:258. 1943, *nom.* = *Heridium* Pers. fide Saccardo.
- **clavatus* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **dichotomus* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **globosus* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **pyriformis* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **thamnoides* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- HEPATARIA** Raf. Med. Repos. II. 5:350. 1808, *nom.*; Jour. Bot. (Paris) 2:168. 1809, *nom.*; A. Gray, Am. Jour. Sci. 40:226. 1841, *nom.*; Merr. Farlowia 1:258. 1943, *nom.* = *Tremella* Dill. vel aff. fide Saccardo.
- **cuneata* Raf. l.c., *nom.*; A. Gray, l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **erecta* Raf. l.c., *nom.*; A. Gray, l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- HERIDIUM** Pers.
- **grande* Raf. Jour. Bot. (Desv.) 1:236. 1813, *descr.*; Précis Découv. Somiol. 50. 1814, *descr.*; Jour. Bot. (Desv.) 4:276 (err. 176). 1814, *nom.*; Merr. Farlowia 1:258. 1943, *nom.* New Jersey.
- HYDNUM** Linn.
- **aurantinum* Raf. Précis Découv. Somiol. 50. 1814, *descr.*; Merr. Farlowia 1:258. 1943, *nom.* Delaware = seq.
- **aurantium* Raf. Jour. Bot. (Desv.) 1:237. 1813, *descr.*; op. cit. 4:276 (err. 176). 1814, *nom.*; Merr. l.c., *nom.* Delaware.
- barbatum* Raf. Med. Repos. II. 5:363. 1808, *descr.*; Jour. Bot. (Paris) 1:234. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*; Merr. l.c., *nom.* Delaware.
- caerulescens* Raf. l.c., *descr.*; Gerard, l.c., *nom.* (*cerulescens*); Merr. l.c., *nom.* New Jersey = *Hydnum* sp. dub. fide Saccardo.
- citrinum* Raf. l.c., *descr.*; Gerard, l.c., *nom.*; Merr. l.c., *nom.* Pennsylvania.
- dilatatum* Raf. l.c., *descr.*; Gerard, l.c., *nom.*; Merr. l.c., *nom.* Pennsylvania.
- **puniceum* Raf. Jour. Bot. (Desv.) 1:237. 1813, *descr.*; Précis Découv. Somiol. 50. 1814, *descr.*; Jour. Bot. (Desv.) 4:276 (err. 176). 1814, *nom.*; Merr. l.c., *nom.* Delaware.
- HYDROMYCUS** Raf. Med. Repos. II. 5:356. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2:178. 1809, *nom. subnud.*; Merr. Farlowia 1:259. 1943, *nom.* = *Dacryomyces* Nees (1821) fide Saccardo.
- **aquosus* Raf. l.c., *nom.*; Merr. l.c., *nom.* New Jersey, Pennsylvania.
- **tremelloides* Raf. l.c., *nom.*; Merr. l.c., *nom.* New Jersey, Pennsylvania.
- HYPOLEPIA** Raf. Med. Repos. II. 5:356. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2:178. 1809, *nom. subnud.*; Merr. Farlowia 1:259. 1943, *nom.* = *Dacryomyces* Nees (1821) fide Saccardo.
- **difformis* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **igniarias* Raf. Med. Repos. II. 5:356. 1808, *nom.*; Merr. l.c., *nom.* Central Atlantic United States = seq.
- **ignarius* Raf. Jour. Bot. (Paris) 2:178. 1809, *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- ISARIA** Pers.
- **odora* Raf. Jour. Bot. (Desv.) 1:237. 1813, *descr.*; Précis Découv. Somiol. 51. 1814, *descr.*; Jour. Bot. (Desv.) 4:276 [err. 176]. 1814, *nom.*; Merr. Farlowia 1:259. 1943, *nom.* Maryland.
- LAMYXIS** Raf. Ann. Nat. Ann. Synop. 16. 1820, *nom. nov. provis.*, sub *Sisostrema*; Merr. Farlowia 1:259. 1943, *nom.*
- LEPTOPORA** Raf. Med. Repos. II. 5:355. 1808, *descr.*; Jour. Bot. (Paris) 2:177. 1809, *descr.*; Merr. Farlowia 1:259. 1943, *nom.* = *Poria* Pers. fide Saccardo.
- **difformis* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **nivea* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- **stercoraria* Raf. l.c., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- LYCOPERDON** Pers.
- **coccineum* Raf. Jour. Bot. (Desv.) 1:237. 1813, *descr.*; Précis Découv. Somiol. 51. 1814, *descr.*; Jour. Bot. (Desv.) 4:276. (err. 176). 1814, *nom.*; Merr. Farlowia 1:259. 1943, *nom.* Delaware.
- **violacinum* Raf. Jour. Bot. (Paris) 4:276 (err. 176). 1814 (*Lycoperdon*), *nom.* in syn. sub *Omalycus violacinus* Raf.; Merr. l.c., *nom.* Pennsylvania.
- MERULIUS** Pers.
- **undulatus* Raf. Jour. Bot. (Desv.) 1:237. 1813, *descr.*; op. cit. 4:276 (err. 176). 1814, *nom.*; Précis Découv. Somiol. 50. 1814, *descr.*; Merr. Farlowia 1:259. 1943, *nom.* Maryland.
- MORCHELLA** Dill.
- **cava* Raf. Car. Nuov. Gen. Sp. Sicil. 88. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; Chloris Aetn. 14. 1815, *nom.*; Merr. Farlowia 1:259. 1943, *nom.* Sicily.
- **odorata* Raf. Fl. Ludovic. 12. 1817, *descr.* (*Morille* Rob. Voy. Louis. 3:327. 1807); Merr. l.c., *nom.* Louisiana.
- MYCASTRUM** Raf. Jour. Bot. (Desv.) 1:236. 1813, *descr.*; Merr. Farlowia 1:259. 1943, *nom.* = *Omalycus* Raf. fide Desv. op. cit. 4:276 (err. 176). 1814 = *Actigea* Raf. fide Saccardo.
- **siculum* Raf. l.c., *descr.*; Merr. l.c., *nom.* Sicily.
- ***NIDULARIA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:259. 1943, *nom.* (= ? *Nidularia* Fries, 1817).
- ***ODONTIUM** Raf. Am. Monthly Mag. Crit. Rev. 1:429. 1817, *nom.* sub *Hydnum chrysorhizon* Torr. ex Eaton, Man. 140. 1817 (*Hydnum* Linn. sect. *Odontia* Pers.) = *Odontia* (Pers.) Hennings (1897).
- OMALYCUS** Raf. Précis Découv. Somiol. 52. 1814, *descr.*; Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:259. 1943, *nom.* = *Scleroderma* Pers. fide Saccardo.
- **erosus* Raf. Précis Découv. Somiol. 52. 1814, *nom. nov.* *Lycoperdon complanatum* Desv.; Jour. Bot. (Desv.) 4:276 (err. 176). 1814, *nom.* (*Lycoperdon complanatum* Desv.); Merr. l.c., *nom.*
- violacinus* Raf. l.c., *descr.*; *nom.* (*sphalm. Lycopodium*); Merr. l.c., *nom.* Pennsylvania = *Scleroderma violacinum* De Toni, fide Saccardo.
- ***ONYGENA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:260. 1943 (an Pers. ?).
- PEZIZA** Dill.
- **alborufa* Raf. Med. Repos. II. 5:362. 1808, *descr.*; Jour. Bot. (Paris) 1:232. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*; Merr. Farlowia 1:260. 1943, *nom.* Pennsylvania.
- **atrata* Raf. Med. Repos. l.c. (*atrata*) et Jour. Bot. (Paris) l.c., *descr.*; Merr. l.c., *nom.* Pennsylvania, New Jersey.
- **cupularia* Raf. Med. Repos. l.c., *descr.*; Merr. l.c., *nom.* Delaware = seq.
- **cupularis* Raf. Jour. Bot. (Paris) 1:232. 1809, *descr.*; Merr. l.c., *nom.* Delaware.
- **depressa* Raf. Med. Repos. et Jour. Bot. (Paris) l.c., *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*; Merr. l.c., *nom.* Pennsylvania.
- **globulosa* Raf. l.c., *descr.*; Gerard, l.c., *nom.*; Merr. l.c., *nom.* Pennsylvania.
- **lupularia* Raf. ex Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*; Merr. l.c., *nom.* [Eastern United States].
- **ochrochlora* Raf. Med. Repos. et Jour. Bot. (Paris) l.c., *descr.*; Gerard, l.c., *nom.*; Merr. l.c., *nom.* New Jersey.
- **pulcherrima* Raf. l.c., *descr.*; Gerard, l.c., *nom.*; Merr. l.c., *nom.*
- **smaragdina* Raf. Jour. Bot. (Paris) 1:232. 1809, *descr.*; Merr. l.c., *nom.* Pennsylvania.
- **smeraldina* Raf. Med. Repos. II. 5:362. 1808, *descr.*; Gerard, l.c., *nom.* (*smiraldina*); Merr. l.c., *nom.* Pennsylvania = *praec.*
- ***PHERIMA** Raf. Am. Monthly Mag. Crit. Rev. 4:208. 1819, *nom.*; Merr. Farlowia 1:260. 1943, *nom.* = *Phorima* Raf. (1806, 1808).
- ***PHIALA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:260. 1943, *nom.*
- PHIALOSPORA** Raf. Loud. Gard. Mag. 8:248. 1832, *nom. nov.* *Cucurbitaria* Gray, iter. Schlecht. Linnaea 8: Lit.-Ber. 73. 1833, iter. Britten, Jour. Bot. 38:228. 1900.

- PHORIMA** Raf. Med. Repos. II. 3:423. 1806, *nom.*; op. cit. 5:355. 1808, *descr.*; Précis Découv. Somiol. 49. 1814, *descr.*; Jour. Bot. (Desv.) 4:275. 1814, *descr.*; Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Med. Fl. 2:201. 1830, *nom.*; Loud. Gard. Mag. 8:248. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 73. 1833, iter. Britten, Jour. Bot. 38:228. 1900; Fl. Tellur. 1:34. 1836 [1837], *nom.*; Merr. Farlowia 1:260. 1943, *nom.*=*Favolus* Beauv. (1805) fide Desvaux, Jour. Bot. (Desv.) 4:275. 1814 (non *Favolus* Fries 1821).
- ***betulina** Raf. Med. Repos. II. cc., *nom.*; Jour. Bot. (Paris) 2:177. 1809, *nom.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- ***boletoides** Raf. Med. Repos. II. 3:423. 1806, *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- ***coccinea** Raf. op. cit. II. 5:355. 1808, *nom.*; Jour. Bot. (Paris) 2:177. 1809, *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- ***difformis** Raf. op. cit. II. 3:423. 1806, *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- ***minuta** Raf. op. cit. II. 5:355. 1808, *nom.*; Jour. Bot. (Paris) 2:177. 1809, *nom.*; Précis Découv. Somiol. 49. 1814, *descr.*; Jour. Bot. (Desv.) 4:275. 1814, *descr.*; Merr. l.c., *nom.* Central Atlantic United States.
- ***PHYELLOPS** Raf. Fl. Ludovic. 172. 1817, *nom.*; Merr. Farlowia 1:260. 1943, *nom.* Louisiana.
- PIEMYCUS** Raf. Jour. Bot. (Desv.) 1:236. 1813, *nom.*, *nota*, subgen. *Mycastrium* Raf. (Type *Lycoperdon complanatum* Desf.); Merr. Farlowia 1:260. 1943, *nom.*=seq.
- PIESMYCUS** Raf. Med. Repos. II. 5:355. 1808, *descr.*; Jour. Bot. (Paris) 2:176. 1809, *descr.*; Merr. Farlowia 1:260. 1943, *nom.*=*Lycoperdon* Pers. fide Saccardo; gen. dub. fide Fischer.
- ***nigrescens** Raf. ll.cc., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- ***violaceus** Raf. ll.cc., *nom.*; Merr. l.c., *nom.* Central Atlantic United States.
- ***POLYSTEMA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:260. 1943, *nom.*
- ***PORONEA** Raf. Anal. Nat. Tabl. Univ. 207. 1815, *nom.*; Merr. Farlowia 1:260. 1943, *nom.*
- PRIAPUS** Raf. Med. Repos. II. 3:423. 1806, *nom.*; op. cit. 5:355. 1808, *nom.* *subnud.*; Jour. Bot. (Paris) 2:176. 1809, *nom.* *subnud.*; Merr. Farlowia 1:260. 1943, *nom.*=*Phallus* Linn. vel aff. fide Saccardo.
- ***niveus** Raf. ll.cc., *nom.*, *nom.* *subnud.*; Merr. l.c., *nom.* Virginia.
- ***PYRENIUM** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:260. 1943, *nom.*
- PYRISPERMA** Raf. Med. Repos. II. 3:423. 1806, *nom.*; op. cit. 5:355. 1808, *nom.* *subnud.*; Jour. Bot. (Paris) 2:177. 1809, *nom.* *subnud.*=*Tuber* Mich. vel aff. fide Saccardo.
- ***hypogaea** Raf. ll.cc., *nom.* New Jersey.
- ***RAMARIA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:260. 1943, *nom.* (an Pers. ?).
- RIELLA** Raf. ex Léveillé in Orb. Dict. Univ. Hist. Nat. 8:488. 1849; Saccardo, Syll. Fung. 15:323. 1901, *nom.* in syn.; Merr. Farlowia 1:261. 1943, *nom.*, *nota*=seq. fide Saccardo l.c.
- RIMELLA** Raf. Am. Monthly Mag. Crit. Rev. 4:208. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, *descr.*; Merr. Farlowia 1:261. 1943, *nom.*=*Tylosma* Pers. vel aff. fide Saccardo.
- ***obovalis** Raf. Jour. Phys. Chim. Hist. Nat. l.c., *descr.*; Isis von Oken l.c., *descr.*; Merr. l.c., *nom.* Virginia and along the Ohio River.
- ***ROTULA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:261. 1943, *nom.* (An *Agaricus* Linn., sect. *Rotula* DC. 1805?).
- ***RUGOSARIA** Raf. Atl. Jour. 1:181. 1833, *nom.* alt. *Gemmularia* Raf., Merr. Farlowia 1:261. 1943, *nom.*=*Gemmularia* Raf. (1819)=*Tuohus* Raf. (1830)=*Pachyma* Fries (1833).
- ***SARCANTHIA** Raf. Fl. Ludovic. 172. 1817, *nom.*; Merr. Farlowia 1:261. 1943, *nom.*
- ***SARCOMELAS** Raf. Fl. Ludovic. 172. 1817, *nom.*; Merr. Farlowia 1:261. 1943, *nom.* Louisiana.
- SARCONEMUS** Raf. Anal. Nat. Tabl. Univ. 210. 1815, *nom.*; Merr. Farlowia 1:261. 1943, *nom.*; gen. omn. incert. fide Saccardo.
- ***SISOSTREMA** Raf. Ann. Nat. Ann. Synop. 16. 1820, *nom.* Ut viditer *sphalm.*=*Sistotrema* Pers. (1797).
- ***globularis** Raf. Ann. Nat. Ann. Synop. 16. 1820, *descr.*; Merr. Farlowia 1:261. 1943, *nom.* New York.
- ***SPHEROPSIS** Raf. Anal. Nat. Tabl. Univ. 207. 1815, *nom.* nov. *Sphaeria* Pers.; Merr. Farlowia 1:261. 1943, *nom.*
- STEMASTRUM** Raf. Med. Repos. II. 5:355. 1808, *nom.* *subnud.*; Jour. Bot. (Paris) 2:177. 1809, *nom.* *subnud.*; Merr. Farlowia 1:261. 1943, *nom.*=*Geaster* Mich. vel aff. fide Saccardo.
- ***boscii** Raf. ll.cc., *nom.* *subnud.*; Merr. l.c., *nom.* Virginia.
- STERICIUM** Raf. Am. Monthly Mag. Crit. Rev. 4:208. 1819, *nom.*; Merr. Farlowia 1:261. 1943, *nom.*
- STIPIZA** Raf. Ann. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:261. 1943, *nom.*
- TETENA** Raf. Med. Repos. II. 3:423. 1806, *nom.* Prob.=*Aedicia* Raf.
- ***alba** Raf. l.c., *nom.* Central Eastern United States.
- ***rubra** Raf. l.c., *nom.* Central Eastern United States.
- THELEPHORA** Ehrh.
- ***aurantiaca** Raf. Med. Repos. II. 5:363. 1808, *descr.*; Jour. Bot. (Paris) 1:233. 1809, *descr.*; Merr. Farlowia 1:261. 1943, *nom.* Central Atlantic United States.
- ***nigrescens** Raf. Jour. Bot. (Desv.) 1:237. 1813, *descr.*; Précis Découv. Somiol. 50. 1814, *descr.*; Jour. Bot. (Desv.) 4:276 (err. 176). 1814, *nom.*; Merr. l.c., *nom.* Pennsylvania.
- ***revoluta** Raf. Jour. Bot. (Desv.) et Précis, ll.cc., *descr.*; Jour. Bot. (Desv.) 4:276 (err. 176). 1814, *nom.*; Merr. l.c., *nom.* Pennsylvania.
- ***semicampanulata** Raf. Med. Repos. II. 5:363. 1808; Jour. Bot. (Paris) 1:233. 1809, *descr.*; Merr. l.c., *nom.* Pennsylvania.
- ***TRICHIDIUM** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.* nov. *Trichia* Hall.; Merr. Farlowia 1:261. 1943, *nom.*
- TUBER** (Micheli) Pers.
- ***rufescens** Raf. Jour. Bot. (Paris) 1:235. 1813, *nom.*; Précis Découv. Somiol. (p. 3 of cover), *nom.*; Merr. Farlowia 1:261. 1943, *nom.*
- ***TUBERIUM** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.* nov. *Tuber* (Micheli) Pers.; Merr. Farlowia 1:261. 1943, *nom.*
- ***TUCAHUS** Raf. Med. Fl. 2:270. 1830, *descr.*; Atl. Jour. 1:181. 1833, *descr.*; Merr. Farlowia 1:261. 1943, *nom.*=*Gemmularia* Raf. (1819)=*Rugosaria* Raf. (1833), fide Raf.=*Pachyma* Fries (1823).
- ***albidus** Raf. Med. Fl. l.c., *nom.*; Atl. Jour. 1:182. 1833, *descr.*; Merr. l.c., *nom.* Pennsylvania, Ohio, Kentucky.
- ***leviusculus** Raf. ll.cc., *nom.*, *descr.*; Merr. l.c., *nom.* Carolina.
- ***rimosus** Raf. Atl. Jour. 1:181. 1833, *descr.*; Merr. l.c., *nom.* Virginia, North Carolina.
- ***rugosus** Raf. Med. Fl. 2:270. 1830, *nom.*; Atl. Jour. l.c., *descr.*; Merr. l.c., *nom.* Maryland to South Carolina.
- URED** Pers.
- ***citrina** Raf. Car. Nuov. Gen. Sp. Sicil. 88. 1810, *descr.*; Merr. Farlowia 1:261. 1943, *nom.* Sicily, on *Dianthus dubius* Raf.
- VOLVARIA** Fries
- ***coccinea** Raf. Med. Repos. II. 3:423. 1806, *nom.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*; Merr. Farlowia 1:261. 1943, *nom.* Central Atlantic United States=*Volvycium coccineum* Raf.
- VOLVYCIUM** Raf. Med. Repos. II. 5:358. 1808, *descr.*; Jour. Bot. (Paris) 1:222. 1809, *descr.*; Anal. Nat. Tabl. Univ. 211. 1815, *nom.*; Merr. Farlowia 1:261. 1943, *nom.*=*Battarrea* Pers. vel aff. fide Saccardo=gen. dub. fide Fischer.
- ***coccineum** Raf. ll.cc., *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*; Merr. Farlowia 1:262. 1943, *nom.* Maryland.
- XYLISSUS** Raf. Med. Repos. II. 5:356. 1808, *nom.* *subnud.*; Jour. Bot. (Paris) 2:177. 1809, *nom.* *subnud.*; Merr. Farlowia 1:262. 1943, *nom.*=*Dacryomyces* Nees vel aff. fide Saccardo.
- ***cylindricus** Raf. ll.cc., *nom.*; Merr. l.c., *nom.* Pennsylvania.
- ***lineatus** Raf. ll.cc., *nom.*; Merr. l.c., *nom.* Pennsylvania.
- ***oblongus** Raf. ll.cc., *nom.*; Merr. l.c., *nom.* Pennsylvania.
- ***ZONILIA** Raf. Anal. Nat. Tabl. Univ. 211. 1815, *nom.* Farlowia 1:262. 1943, *nom.*

LICHENES

- ***EPIDROLITHUS** Raf. Life of Travels 136. 1836, *nom., nota.*; Merr. Farlowia 1:262. 1943, *nom.* Pennsylvania=? *Leptogium* (Ach.) S. Gray.
LEPTUBERIA Raf. Med. Repos. II. 5:350. 1808, *nom.*; Jour. Bot. (Paris) 2:167. 1809, *nom.*; A. Gray, Am. Jour. Sci. 40:226. 1841, *nom.*; Merr. Farlowia 1:262. 1943, *nom.*

- **amorpha* Raf. Il.cc., *nom.*; A. Gray, l.c., *nom.*; Merr. l.c., *nom.* Pennsylvania.
SCYPHORUS Raf. Anal. Nat. Tabl. Univ. 208. 1815, *nom. nov.* *Scyphophorus* Acharius; Merr. Farlowia 1:262. 1943, *nom.*
***XYLOMA** Raf. Fl. Tellur. 1:55. 1836 [1837], *nom.*

MUSCI

- ***DIPHAS** Raf. Am. Monthly Mag. Crit. Rev. 1:429. 1817, *nom. nov.* *Diphascum* Eaton; Merr. Farlowia 1:262. 1943, *nom.*=*Diphyscium* Ehrh. (1787).
HETERODON Raf. Med. Repos. II. 5:350. 1808, *nom.*; Jour. Bot. (Paris) 2:167. 1809, *nom.*; Merr. Farlowia 1:262. 1943, *nom.*=*Fissidens* Hedw. (1782).

- **bryoides* Raf. Il.cc., *descr.*; A. Gray, Am. Jour. Sci. 40:226. 1841, *descr.*; Merr. l.c., *nom.* New Jersey=? *Fissidens julianus* (Mont.) Schimp.

PTERIDOPHYTA

POLYPODIACEAE

- ACROSTICHUM** Linn.
 **acuminatum* Raf. New Fl. N. Am. 4:104. 1836 [1838], *descr.* (*Acrostichum aureum* sensu Kunth, non Linn.), *iter.* Merr. Am. Fern Jour. 33:45. 1943, *nota.* Venezuela=*Acrostichum daneaefolium* Langsd. & Fisch. (1810) (*A. excelsum* Maxon, 1905).
 **laciniatum* Raf. Med. Repos. II. 5:353. 1808, *nom.* (*Acrostichum*); Jour. Bot. (Paris) 2:173. 1809, *nom.* (*Acrostichum*); Merr. l.c., *nom.*, non Gilib. 1792. Central Atlantic United States.
 **maritimum* Raf. New Fl. N. Am. 1:60. 1836, *descr.* (*Acrostichum aureum* sensu Michx.), *iter.* Merr. op. cit. 46, *nota.*; Raf. op. cit. 4:104. 1836 [1838], *nom.*, Florida=*Acrostichum aureum* Linn.
 **oreolatum* Raf. op. cit. 59, *nom.*, *sphalm.*=*A. areolatum* Linn.=*Woodwardia areolata* (Linn.) Moore. Eastern North America.
***ADIANTHUM** Raf. New Fl. N. Am. 1:63. 1836, *nom.*; Fl. Tellur. 1:86. 1836 [1837], *nom.*=*seq.*
 **pedatum* Raf. New Fl. N. Am. 1:63. 1836, *nom.*=*Adiantum pedatum* Linn. North temperate regions.
ADIANTHUM Linn.
 **capilveneris* Raf. Med. Fl. 1:31. 1828, *nom.*, *iter.* Man. Med. Bot. 31. 1841; Merr. Am. Fern Jour. 33:46. 1943, *nom.* Eurasia, North America=*Adiantum capillus veneris* Linn.
ASPENIUM Linn.
 **falcatum* Raf. Western Minerva 42. 1821, *nom.*; *iter.* Fox, Science II. 12:213. 1900; Merr. Am. Fern Jour. 33:46. 1943, *nom.* Mississippi or Missouri.
 **glaucum* Raf. l.c., *nom.*, *iter.* Fox, l.c.; Merr. l.c., *nom.* Mississippi or Missouri.
 **ruta* Raf. Med. Fl. 2:198. 1830, *nom. nov.* [*Asplenium rutamuraria* Linn.]; Merr. l.c., *nom.*
***DRIOPTERIS** Raf. Med. Fl. 1:32. 1828, *nom.* in obs., *iter.* Man. Med. Bot. 32. 1841; Merr. Am. Fern Jour. 33:48. 1943, *nom.*=*Dryopteris* Adans. (1763), *nom. conserv.* (*Filix* Hill, 1755, non Ludw., 1757, nec Adans., 1763; *Thelypteris* Schmidel, 1762, non Adans., 1763).
***FILINGUIS** Raf. Med. Fl. 2:220. 1830, *nom.* (*Scolopendrium officinale* Sm.); Merr. Am. Fern Jour. 33:48. 1943, *nom.*, *nota*=*Phyllitis* Ludw. (1757) (*Scolopendrium* Adans. 1763).
***GLOSSOPTERIS** Raf. Anal. Nat. Tabl. Univ. 205. 1815, *nom. nov.* *Scolopendrium* Sm.; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.* (*Scolopendrium* Sm.); op. cit. 4:195. 1819, *nom.*, *nota* (*Scolopendrium* Sm.); Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.*, *nota* (*Scolopendrium* Sm.); Merr. Am. Fern Jour. 1:48. 1943, *nom.*, *nota*=*Phyllitis* Ludwig (1757).
 **angustifolia* Raf. Herb. Raf. 52. 1833, *nom.*; Merr. l.c., *nom.* Rocky Mountains or Oregon.
 **furcata* Raf. op. cit. 53, *nom.*; Merr. l.c., *nom.* Rocky Mountains or Oregon.
 **hemionitis* Raf. Chloris Aetn. 13. 1815, *nom.* (*Asplenium hemionitis* Linn.; *Scolopendrium hemionitis* Willd.); Merr. l.c., *nom.* Sicily=*Asplenium hemionitis* Linn.
 **obtusa* Raf. Herb. Raf. 53. 1833, *nom.*; Merr. l.c., *nom.* Rocky Mountains or Oregon.

- **scolopendrium* Raf. Chloris Aetn. 13. 1815, *nom.* (*Asplenium scolopendrium* Linn.; *Scolopendrium officinarum* Willd.); Merr. l.c., *nom.* Sicily=*Phyllitis scolopendrium* (Linn.) Newm.
***LEMAPTERIS** Raf. Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom. nov.* *Pteris* Linn.; Merr. Am. Fern Jour. 33:49. 1943, *nom.*=*Pteris* Linn.
***LEPTOPHYLLUM** Raf. Chloris Aetn. 13. 1815, *nom.*; Merr. Am. Fern Jour. 33:49. 1943, *nom.*, *nota*, non Ehrh. (1789), nec Blume (1898)=*Anogramma* Link (1841).
 **acrostichoides* Raf. l.c., *nom.* (*Polypodium leptophyllum* Linn.; *Acrostichum leptophyllum* DC.); Merr. l.c., *nom.*, *nota.* Sicily=*Anogramma leptophylla* (Linn.) Link.
***NESORIS** Raf. New Fl. N. Am. 4:104. 1836 [1838], *descr.*, *iter.* Merr. Am. Fern Jour. 33:50. 1943; Good Book 47. 1840, *nom.*=*Pityrogramma* Link (1833) (*Ceropteris* Link 1841).
 **bicolor* Raf. New Fl. l.c., *descr.* Florida [cult.]=*Pityrogramma calomelanos* (Linn.) Link.
 **discolor* Merr. Am. Fern Jour. 33:50. 1943, *nom.*, *sphalm.*, *nota*=*Nesoris* *bicolor* Raf.=*Pityrogramma calomelanos* (Linn.) Link.
ONOCLEA Linn.
 **costata* Raf. Herb. Raf. 66. 1833, *nom.*; Merr. Am. Fern Jour. 33:51. 1943, *nom.* Appalachian Mountains.
 **dentata* Raf. op. cit. 63, *nom.*; Merr. l.c., *nom.* Kentucky, Indiana, Illinois.
 **laciniata* Raf. op. cit. 66, *nom.*; Merr. l.c., *nom.* Alleghany Mountains of Pennsylvania.
 **repanda* Raf. op. cit. 63, *nom.*; Merr. l.c., *nom.* Kentucky.
***PERIPTERIS** Raf. Anal. Nat. Tabl. Univ. 205. 1815, *nom. nov.* *Pteris* Linn.; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.* (*Pteris* Linn.); Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.* (*Pteris* Linn.); Fl. Tellur. 1:83. 1836 [1837], *nom.* (*Pteris* Linn.); Merr. Am. Fern Jour. 33:53. 1943, *nom.*, *nota*=*Pteris* Linn.
 **edulis* Raf. Herb. Raf. 54. 1833, *nom.*; Merr. l.c., *nom.*, *nota.* Rocky Mountains or Oregon. Prob.=*Pteridium aquilinum* (Linn.) Kuhn.
 **rugosa* Raf. op. cit. 41, *nom.*; Merr. l.c., *nom.*, *nota.* Upper Missouri (Mandan country)=*Dakota*.
***PHYLLITIS** Raf. Princ. Somiol. 29. 1814, *nom. nov.* *Scolopendrium* Sm.; Merr. Am. Fern Jour. 33:54. 1943, *nom.*, *nota*=*Phyllitis* Ludwig (1757).
***PHYLLITIS** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom. nov.* *Pteris* Linn.; Merr. Am. Fern Jour. 33:54. 1943, *nom.*, *nota*=*Pteris* Linn.
POLYPODIUM Linn.
 **bullatum* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 41. 1833, *nom.*; Merr. Am. Fern Jour. 33:54. 1943, *nom.*, *nota.* Kentucky, Missouri=*Polypodium polypodioides* (Linn.) Watt. var. *michauxianum* Weath.
 **erosum* Raf. Ann. Nat. Ann. Synop. 16. 1820, *descr.*, *iter.* Merr. l.c., *nota.* Kentucky=*Cystopteris fragilis* (Linn.) Bernh.
 **filix* Raf. First Cat. Bot. Gard. Transylv. Univ. 8. 1824, *nom.* [*Polypodium filix-femina* Linn. vel *P. filix-mas* Linn.].

POLYPODIUM (continued).

- *medium Raf. Am. Jour. Sci. 1:79. 1818, *nom.*; Merr. l.c., *nom.*, *nota*. Pennsylvania, at Philadelphia.
vulgare Linn.; Raf. Med. Fl. 2:67. 1830, *descr.* North America.
var. latifolium Raf. l.c., *nom.*
levigatum Raf. l.c., *nom.*
multicaule Raf. l.c., *nom.*
- *PTERETIS Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov.* *Struthiopteris* Willd.; Merr. Am. Fern Jour. 33:55. 1943, *nom.*, *nota*. Nomen validum (*Struthiopteris* Willd., 1809, non Weis., 1770, nec Bernh., 1801; *Matteuccia* Todaro, 1866; *Pterinoides* O. Kuntze, 1891).
- *PTERIDIUM Raf. Princ. Somiol. 26. 1814, *nom. nov.* *Pteris* Linn.; Merr. Am. Fern Jour. 33:56. 1943, *nom.*, *nota* = *Pteris* Linn.
- *PTERILIS Raf. Am. Monthly Crit. Rev. 4:195. 1819, *nom. nov.* *Struthiopteris* Willd.; Merr. Am. Fern Jour. 33:56. 1943, *nom.*, *nota* = *Pteretis* Raf. (1818).
- *PTERILIS Raf. Med. Fl. 2:254. 1830, *nom. nov.* *Pteris* Linn., Fl. Tellur. 1:83. 1836 [1837], *nom.* (*Pteris* Linn.); Merr. Am. Fern Jour. 33:99. 1943, *nom.*, *nota* = *Pteris* Linn. (vel *Pteridium* Scop., 1760).
- *SCIPHOFILIX Raf. Princ. Somiol. 26. 1814, *nom.*; Merr. Am. Fern Jour. 33:97. 1943, *nom.* = *Scyphofilix* Thouars (1808).
- *SCYPHOPTERIS Raf. Princ. Somiol. 26. 1814, *nom. nov.* *Scyphofilix* Thouars; Fl. Tellur. 1:84. 1836 [1837], *nom.* (*Scyphofilix* Thouars); Merr. Am. Fern Jour. 33:97. 1943, *nom.*, *nota* = *Scyphofilix* Thouars (1808).
- *SYNOTELIS Raf. New Fl. N. Am. 1:59. 1836, *nom.*, *nota*, sub *Acrostichum* Linn.; Merr. Am. Fern Jour. 33:98. 1943, *nom.*, *nota* = *Cyclophorus* Desv. (1811) vel *Acrostichum* Linn.
- *THELIPTERIS Raf. Med. Fl. 1:32. 1828, *nom.*, in obs., iter. Man. Med. Bot. 32. 1841; Merr. Am. Fern Jour. 33:99. 1943, *nom.* = *Thelypteris* Adans. (1763), non Schmeidel (1762) = *Pteris* Linn.

OSMUNDACEAE

OSMUNDA Linn.

- *fuscata Raf. Herb. Raf. 53. 1833, *nom.*; Merr. Am. Fern Jour. 33:51. 1943, *nom.* Rocky Mountains or Oregon.

SCHIZAEACEAE

- *SCHIZEA Raf. Am. Monthly Mag. Crit. Rev. 2:174. 1818, *nom.*; New Fl. N. Am. 1:59. 1836, *nom.*; Fl. Tellur. 1:55. 1836 [1837], *nom.* = *Schizaea* Sm. (1783).
*pusilla Raf. Am. Monthly Mag. et New Fl. l.c., *nom.* Eastern North America = *Schizaea pusilla* Pursh.

OPHIOGLOSSACEAE

- *MENOPTERIS Raf. Herb. Raf. 53. 1833, *nom.* (*Lunaria* Bauhin, non *Lunaria* Linn.); Merr. Am. Fern Jour. 33:50. 1943, *nom.*, *nota* = *Botrychium* Swartz (1801).

- *remotiloba Raf. l.c., *nom.*, Merr. l.c., *nom.* Rocky Mountains or Oregon.

OPHIOGLOSSUM Linn.

- *lineatum Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*; Merr. Am. Fern Jour. 33:51. 1943, *nom.*, *nota*. Central Atlantic United States. Prob. = *Ophioglossum vulgatum* Linn.

SPERMATOPHYTA

GYMNOSPERMAE

TAXACEAE

- †TUMION Raf. Good Book 63. 1840, *nom. nov.* *Torreya* Arnott (1838), non *Torreya* Raf. (1818), nec Raf. (1819), nec Spreng. (1821), nec Eaton (1836), nec Croom (1843) = *Torreya* Arnott (1838), *nom. conserv.* (*Tumion* Raf., 1840).

PINACEAE

ABIES Linn.

- †aromatica Raf. Med. Fl. 2:182. 1830, *nom.*; Atl. Jour. 1:119. 1832, *descr.* (third fir, Lewis & Clark); Herb. Raf. 53.

- *pubescens Raf. l.c., *nom.*; Précis Découv. Somiol. 46. 1814, *descr.*, iter. Merr. op. cit. 52, *nom.*, *nota*; Jour. Bot. (Desv.) 4:273. 1814, *nom. subnud.* New Jersey = *Ophioglossum vulgatum* Linn.

- *pusillum Raf. l.c., *nom.*; Précis Découv. Somiol. 46. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.*, iter. Merr. l.c., *nom.*, *nota*. Northern Pennsylvania = *Ophioglossum vulgatum* Linn., var. *pseudopodium* (Blake) Fernald, *Rhodora* 41:498. 1939.

- *repandum Raf. Herb. Raf. 53. 1833, *nom.*; Merr. op. cit. 53, *nom.* Rocky Mountains or Oregon.

MARSILEACEAE

- *MARSIGLIA Raf. Fl. Tellur. 1:18. 1836 [1837], *nom. nov.* *Marsilea* Linn.; Merr. Am. Fern Jour. 33:49. 1943, *nom.*, *nota* (*Marsiglia* Trev. Atti Soc. Ital. Sci. Nat. 19:475. 1877) = *Marsilea* Linn.

- *MARSILLA Raf. Jour. Bot. (Paris) 1:222. 1808, *non.*, *sphalm.* = *Marsilea* Linn.

- *PILLULARIA Raf. Med. Repos. II. 5:358. 1808, *nom.*; Jour. Bot. (Paris) 1:222. 1809, *nom.*; Merr. Am. Fern Jour. 33:54. 1943, *nom.* = *Pilularia* Linn.

EQUISETACEAE

EQUISETUM Linn.

- *montanum Raf. Fl. Ludovic. 171. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:206. 1818, *descr.*, iter. Merr. Am. Fern Jour. 33:99. 1943, *nota*. New York = *Equisetum sylvaticum* Linn.

- prealtum Raf. Fl. Ludovic. 13. 1817, *descr.* (Prêle Rob. Voy. Louis. 3:13. 1807); iter. Merr. l.c., *nota* (*E. praealtum*); Med. Fl. 2:217. 1830, *nom.* Louisiana. (*E. robustum* A. Br., 1844).

- *tuberosum Raf. Med. Fl. 2:218. 1830, *nom.*; Herb. Raf. 54. 1833, *nom.*; Merr. l.c., *nom.*, *nota*. Oregon. Prob. = *Equisetum telmateia* Ehrh.

LYCOPODIACEAE

- *CLOPODIUM Raf. Anal. Nat. Tabl. Univ. 205. 1815, *nom.* [*Lycopodium* Linn.]; Merr. Am. Fern Jour. 33:101. 1943, *nom.* = *Lycopodium* Linn.

- *COPODIUM Raf. Am. Monthly Mag. Crit. Rev. 2:44. 1817, *nom. nov.* *Lycopodium* Linn.; op. cit. 268. 1818, *nom.*, *nota*; Merr. Am. Fern Jour. 33:101. 1943, *nom.*, *nota* = *Lycopodium* Linn.

- *oxyneum Raf. op. cit. 44, *descr.*; iter. Merr. l.c., *nota*; Fl. Ludovic. 169. 1817, *nom.* Catskill Mountains, New York = *Lycopodium clavatum* Linn.

LYCOPODIUM Linn.

- *violacinum Raf. Jour. Bot. (Desv.) 1:236. 1813, *descr.* (err., *Lycoperdon* intended) sub *Mycastrum siculum* Raf.; Merr. Am. Fern Jour. 33:102, *nom.*, *nota*; Merr. Farlowia 1:259. 1943, *nom.* Pennsylvania = *Lycoperdon violacinum* Raf. (*Lycoperdiaceae*).

ISOETACEAE

- *SIVETES Raf. Med. Repos. II. 5:358. 1808, *nom.*, *sphalm.*; Merr. Am. Fern Jour. 33:98. 1943, *nom.*, *nota* = *Isoetes* Linn.

SPERMATOPHYTA

GYMNOSPERMAE

TAXACEAE

- †TUMION Raf. Good Book 63. 1840, *nom. nov.* *Torreya* Arnott (1838), non *Torreya* Raf. (1818), nec Raf. (1819), nec Spreng. (1821), nec Eaton (1836), nec Croom (1843) = *Torreya* Arnott (1838), *nom. conserv.* (*Tumion* Raf., 1840).

PINACEAE

ABIES Linn.

- †aromatica Raf. Med. Fl. 2:182. 1830, *nom.*; Atl. Jour. 1:119. 1832, *descr.* (third fir, Lewis & Clark); Herb. Raf. 53.

- 1833, *nom.*; New Fl. N. Am. 1:38. 1836, *descr.* Oregon = ? *Abies grandis* Lindl.

- †falcata Raf. Med. Fl. l.c., *nom.*; Atl. Jour. 1:120. 1832, *descr.* (seventh fir, Lewis & Clark); Herb. Raf. l.c., *nom.*; New Fl. N. Am. l.c., *descr.* Oregon = ? *Picea sitchensis* (Bong.) Carrière.

- †heterophylla Raf. Med. Fl. l.c., *nom.*; Atl. Jour. 1:119. 1832, *descr.* (second fir, Lewis & Clark); Herb. Raf. l.c., *nom.* (*heterophylla*); New Fl. N. Am. 1:37. 1836, *descr.* (*heterophylla*). Oregon = *Tsuga heterophylla* (Raf.) Sarg.

- †microphylla Raf. Med. Fl. l.c., *nom.*; Atl. Jour. l.c., *descr.* (fourth fir, Lewis & Clark); Herb. Raf. l.c., *nom.* (*micro-*

phyla); New Fl. N. Am. 1:38. 1836, *descr.* (*microphyla*). Oregon=praec.

mucronata Raf. Atl. Jour. 1:120. 1832, *descr.* (fifth fir, Lewis & Clark); Herb. Raf. l.c., *nom.*; New Fl. N. Am. l.c., *descr.* Oregon=Pseudotsuga taxifolia (Poir.) Britton.

var. *palustris* Raf. New Fl. N. Am. l.c., *descr.* Oregon. *obliquata* Raf. ex Gordon, Pinet. Suppl. 10. 1862, *nom.* in *syn.*=Pseudotaxus taxifolia (Poir.) Britton.

taxifolia Raf. New Fl. N. Am. 1:38. 1836, *nom.* (*Pinus taxifolia* Lamb. [Salisb.] et sensu Eaton). North America =Abies balsamea (Linn.) Mill.

var. *patula* Raf. op. cit. 39, *descr.* Cumberland Mountains. †*trigona* Raf. Med. Fl. l.c., *nom.*; Atl. Jour. 1:119. 1832, *descr.* (first fir, Lewis & Clark); Herb. Raf. l.c., *nom.*; New Fl. N. Am. 1:37. 1836, *descr.* Oregon=? *Picea sitchensis* (Bong.) Carrière.

PINUS Linn.

**humilis* Raf. Herb. Raf. 54. 1833, *nom.* (*sphalm.*, *huuilis*); New Fl. N. Am. 3:95. 1836 [1838], *nom.* Northwestern United States (Lewis & Clark).

**macrocarpa* Raf. ll.c., *nom.* Northwestern America (Lewis & Clark).

**tada* Raf. Fl. Ludovic. 162. 1817, *nom.*=*Pinus taeda* Linn.

**tada* Raf. Med. Fl. 2:252. 1830, *nom.*=*Pinus taeda* Linn. North America.

ANGIOSPERMAE

Monocotyledoneae

TYPHACEAE

TYPHA Linn.

†*crassa* Raf. Med. Fl. 2:270. 1830, *nom.*; Atl. Jour. 1:148. 1832, *descr.*; New Fl. N. Am. 2:91. 1836 [1837], *descr.* (*Typha latifolia* auct. Am.); Aut. Bot. 197. 1840, *nom.* North America=T. latifolia Linn.

elatiar Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.*; Med. Fl. 2:270. 1830, *nom.*; Atl. Jour. 1:148. 1832, *descr.*; New Fl. N. Am. 2:91. 1836 [1837], *descr.* (*Typha latifolia* sensu Ell.). Carolina to Kentucky=*Typha latifolia* Linn.

gracilis Raf. New Fl. N. Am. 2:91. 1836 [1837], *descr.* (*Typha angustifolia* sensu auct. Am.); Aut. Bot. 197. 1840, *nom.* New Jersey to Virginia=*Typha angustifolia* Linn.

spiralis Raf. Atl. Jour. 1:148. 1832, *descr.*; New Fl. N. Am. 2:91. 1836 [1837], *descr.* (*Typha latifolia* sensu Sw.). Florida, Cuba, Jamaica=*Typha domingensis* (Pers.) Kunth.

PANDANACEAE

**PANDAMUS* Raf. Fl. Tellur. 1:16. 1836 [1837], *nom.*, *sphalm.*=*Pandanus* Linn.

SPARGANIACEAE

SPARGANIUM Linn.

**axillare* Raf. Aut. Bot. 198. 1840, *descr.* (*S. simplex* sensu Pursh). Alleghany Mountains and Ohio.

**ligulare* Raf. l.c., *descr.* (*S. americanum* sensu Ell.). Carolina, Florida=*S. americanum* Nutt.

POTAMOGETONACEAE

PELTOPSIS Raf. Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *descr.*=*Potamogeton* Linn.

perfoliata Raf. ex Jacks*. Ind. Kew. 2:457. 1894 (*Potamogeton perfoliatus* Linn.). Temperate and boreal regions.

POTAMOGETON Linn.

borealis Raf. Med. Repos. II. 5:354. 1808, *nom.* (*Potamogeton*); Jour. Bot. (Paris) 2:174. 1809, *nom.*; Med. Repos. III. 2:409. 1811, *descr.* (*Potamogeton marinus* sensu Michx.). Canada, New England=*Potamogeton filiformis* Pers. var. *borealis* (Raf.) St. John, Rhodora 18:134. 1916. *dimorphus* Raf. Am. Monthly Mag. Crit. Rev. 1:358. 1817, *descr.* (*P. diversifolius* Barton Fl. Philadelph. Prodr. 27. 1815; *P. setaceus* Pursh). Pennsylvania (*P. spirillus* Tuckerm. 1848).

= *P. capillarens* Poir. (1816)

TAXODIACEAE

JACULARIA Raf. Loud. Gard. Mag. 8:247. 1832, *nom. nov.* *Belis* Salisb. (1807), iter. Schlecht. Linnæa 8: Lit.-Ber. 72. 1833, iter. Britten, Jour. Bot. 38:228. 1900=Cunninghamia R. Br. (1826), *nom. conserv.* (*Belis* Salisb., 1807).

CUPRESSACEAE

CUPRESSUS Linn.

**purpurea* Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.* Florida (Bartram).

JUNIPERUS Linn.

†*depressa* Raf. Fl. Ludovic. 171. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:207. 1818, *descr.*; M'Murtrie. Sketch. Louisv. 219. 1819, *nom.*; Med. Fl. 2:13. 14. 1830, *descr.* (*J. communis* Linn. var. *depressa* Pursh). Eastern North America.

**radicans* Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.* Northwestern United States (Lewis & Clark).

**radicatus* Raf. Med. Fl. 2:13. 1830, *nom.*, *nota*; Herb. Raf. 54. 1833, *nom.* Yellowstone River (Lewis & Clark).

sabina Linn.

var. *cupressiformis* Raf. Med. Fl. 2:14. 1830, *descr.* Europe.

excelsa Raf. l.c., *descr.* Oregon and Asia.

rupestris Raf. l.c., *descr.* Canada.

diversifolius Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.*; Med. Repos. III. 2:409. 1811, *descr.* (*Potamogeton hybridus* Michx.); Am. Monthly Mag. Crit. Rev. 1:358. 1817, *nom.*, *nota*. Delaware to Virginia and Carolina=*Potamogeton hybridus* Michx.

epiphydus Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.* (*sphalm.*, *epiphydum*); Med. Repos. III. 2:409. 1811, *descr.* (*Potamogeton natans* Linn. var. β Michx.); Am. Monthly Mag. Crit. Rev. 2:344. 1818, *nom.* (*Potamogeton natans* sensu Bigelow). North America (*P. pensylvanicus* Willd.; *P. nuttallii* Cham. & Schlecht.). *filiformis* Raf. Med. Repos. III. 2:409. 1811, *descr.* Delaware. *foliorum* Raf. l.c., *descr.*=seq.

foliosus Raf. op. cit. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.* (*Potamogeton gramineus* sensu Michx.). Delaware to Virginia and Carolina (*P. pauciflorus* Pursh). *petiolaris* Raf. op. cit. III. 2:409. 1811, *descr.* Delaware. *tenuifolius* Raf. l.c., *descr.* (*Potamogeton lucens* sensu Michx.). North America. (*P. microstachys* Wolfg., 1827, *P. obrutus* Wood, 1847)=*P. alpinus* Balbis, var. *tenuifolius* (Raf.) Ogden, Rhodora 45:90. 1943.

POTAMOGETON Raf. Med. Repos. II. 5:354. 1808, *nom.*, *sphalm.* =*Potamogeton* Linn.

ZOSTERA Linn.

stenophylla Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom.* (*Zostera marina* sensu Pursh). North America=*Zostera marina* Linn.

NAJADACEAE

**CAVOLIANA* Raf. Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom. nov.* *Caulinia* Willd.=seq.

CAVOLINIA Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom. nov.* *Caulinia* Willd.; op. cit. 4:193. 1819, *nom.* (*Caulinia* Willd.)=*Najas* Linn.

JUNCAGINACEAE

ABBOTIA Raf. New Fl. N. Am. 1:36. 1836, *descr.*; Fl. Tellur. 4:32. 1836 [1838], *descr.*; Good Book 44. 1840, *nom.*=*Triglochin* Linn.

filiformis Raf. ll.c., *descr.*, *nom.*; Aut. Bot. 65. 1840, *nom.* (*Triglochin triandra* Michx.). Carolina, Florida=*Triglochin striata* Ruiz & Pavon.

palustris Raf. New Fl. N. Am. 1:37. 1836, *descr.*; Fl. Tellur. 4:32. 1836 [1838], *nom.*; Aut. Bot. 65. 1840, *nom.* (*Triglochin palustre* Linn.). Lake Erie.

pumila Raf. ll.c., *descr.*, *nom.* (*Triglochin barrelieri* Loisel.). Canada, France.

TRISTEMON Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom.*, *nota* (*Triglochin palustre* Linn.; *T. triandrum* Michx.); Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.*, *nota* (*Triglochin palustre* Linn.; *T. triandrum* Michx.) = *Triglochin* Linn.
palustris Raf. ex Jacks*. Ind. Kew. 2:1122. 1893 (*Triglochin palustre* Linn.). Eurasia, North America.
triander Raf. ex Jacks*. l.c. (*Triglochin triandrum* Michx.). Eastern North America = *T. striata* Ruiz & Pavon.

ALISMATACEAE

ALISMA Linn.

**flavum* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
 **latifolium* Raf. Herb. Raf. 69. 1833, *nom.* Alleghany Mountains.
 **montanum* Raf. l.c., *nom.*; Aut. Bot. 62. 1840, *descr.* Taconic and Alleghany Mountains = *A. subcordatum* Raf.
odoratum Raf. Fl. Ludovic. 17. 1817, *descr.* (*Herbe à malo* Rob. Voy. Louis. 3:340. 1807); Med. Fl. 2:187. 1830, *nom.*, *sphalm.*, *Alima*. Louisiana.
 **parviflorum* Raf. Aut. Bot. 62. 1840, *descr.* (*Alisma plantago* Linn. var. *parviflorum* Eaton, 1824) Pennsylvania, Kentucky, Alabama = *A. parviflorum* Pursh = *A. subcordatum* Raf.
roseum Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
subcordatum Raf. op. cit. 362, *descr.*; Jour. Bot. (Paris) 1:231. 1808, *descr.*; Am. Monthly Mag. Crit. Rev. 1:357. 1817, *nom.*, *nota* (*Alisma plantago* sensu Barton); op. cit. 2:174. 1817, *nom.*, *nota* (*Alisma triviale* Pursh); op. cit. 4:192. 1819, *nom.*, *nota* (*Alisma triviale* Pursh); Aut. Bot. 62. 1840, *descr.* North America (*A. parviflorum* Pursh, 1814); see Fernald, *Rhodora* 48:88. 1946.
DIPHOREA Raf. Neogen. 3. 1825, *descr.* = *Sagittaria* Linn.
graminea Raf. ex Jacks*. Ind. Kew. 1:769. 1893 (*Sagittaria graminea* Michx.). Eastern United States.
DREPACHENIA Raf. Neogen. 3. 1825, *descr.* = *Sagittaria* Linn.
lancifolia Raf. ex Jacks*. Ind. Kew. 1:798. 1893 (*Sagittaria lancifolia* Linn.). North America.
LURONIUM Raf. Aut. Bot. 63. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*, *nota* = *Elisma* Buchen. (1869).
natans Raf. l.c., *descr.* (*Alisma natans* Linn.); Pennell, l.c., *nom.* Europe = *Elisma natans* (Linn.) Buchen.
SAGITTARIA Linn.
cerulea Raf. Fl. Ludovic. 18. 1817, *nom.* (*Fléchière à feuilles en flèche à fleurs en épi* [*Fléchière* (*Sagittaria*), à feuilles taillées en effet en flèches, à fleurs bleues, en épi] Rob. Voy. Louis. 3:340. 1807). Louisiana = *Pontederia cordata* Linn. (*Pontederiaceae*).

HYDROCHARITACEAE

HYDROCHARIS Linn.

**morsus* Raf. Aut. Bot. 188. 1840, *nom.* [*H. morsus-ranae* Linn.]. Europe = *H. morsus-ranae* Linn.
PHILOTRIA Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom. nov.* *Elodea* Michx. (*Udora* Nutt.); op. cit. 4:195. 1819, *nom.* (*Elodea* Michx.); Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.* (*Udora* Nutt.) = *Anacharis* Rich. (1811); see Marie-Vict. Contr. Lab. Bot. Univ. Montréal 18:1-43. 1931.
 ***RHIZAKENIA** Raf. Aut. Bot. 188. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*; Merr. Am. Fern Jour. 33:97. 1943, *nom.*, *nota* = *Limnobia* Rich. (1811).
 **ovata* Raf. l.c., *descr.*; New England to Florida = *Limnobia spongia* (Bosc) Steud. (*L. boscu* L. C. Rich.).
 ***UDOZA** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.*, *sphalm.* = *Udora* Nutt. (1818) = *Anacharis* Rich. (1811).

VALLISNERIACEAE

VALISNERIA Scop. = Vallisneria Linn.

**americana* Raf. Med. Repos. II. 2:208. 1804, *nom.*, *nota*. Maryland (Havre de Grace) [*Vallisneria americana* Michx.].

GRAMINEAE

AGRESTIS Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*, *sphalm.* = *Agrostis* Linn.
 **viridis* Raf. l.c., *nom.* (Ind. Kew. 1:65. 1893, sub *Agrostis*). Alleghany Mountains or Ohio.
AGROSTIS Linn.
viridis Raf. ex Jacks*. Ind. Kew. 1:65. 1893 [*Agrestis viridis* Raf.]. Alleghany Mountains or Ohio.
AIRA Linn.
 †*compressa* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.
 **obtusata* Raf. Jour. Phys. Chim. Hist. Nat. 89:104. 1819, *nom.* sub *Eatonia* Raf.; Isis von Oken 1820, 1: Lit.-Anz. 242. 1820, *nom.* = *Aira obtusata* Desv. = *Sphenopholis obtusata* (Michx.) Scribn. Eastern North America.
 ***ALLOIATHEROS** sensu Raf. Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833, non Ell. (1817) = *Andropogon* Linn.
aristatus Raf. ex Jacks*. Ind. Kew. 1:83. 1893 (*Andropogon aristatus* Poir.). Ile de France.
AMAGRIS Raf. Princ. Somiol. 27. 1814, *nom. nov.* *Calamagrostis* Adans.; Am. Monthly Mag. Crit. Rev. 4:190. 1819 *nom.* (*Calamagrostis* Adans.); Jour. Phys. Chim. Hist. Nat. 89:262. 1819 *nom.* (*Calamagrostis* Adans.); Fl. Tellur. 1:17. 84. 1836 [1837], *nom.* (*Calamagrostis* Adans.) = *Calamagrostis* Adans. (1763).
AMPHICARPON Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom. nov. provis.* (*Milium amphicarpon* Pursh); op. cit. 4:188. 1819, *nom.*; Am. Jour. Sci. 1:253. 1818, *nom.* (*Milium amphicarpon* Pursh); Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*, *nota* (*Milium amphicarpon* Pursh) = *Amphicarpon* Kunth (1829).
ANDROPOGON Linn.
 **arenaceus* Raf. Western Rev. Miscel. Mag. 1:95. 1819, *nom.*, *sphalm.* Kentucky = *A. avenaceus* Michx. = *Sorghastrum nutans* (Linn.) Nash.
 **sessiliflorus* Raf. Seringe Bull. Bot. 1:221. 1830, *nom.*, sub *Dimeistemon* Raf., iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833.
ANTHIPSIMUS Raf. Jour. Phys. Chim. Hist. Nat. 89:105. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *descr.* = *Muhlenbergia* Schreb. (1789).
gonopodus Raf. l.c., *descr.* Ohio = *Muhlenbergia schreberi* J. F. Gmel. fide Chase, in lit. ex spec. in herb. Durand, Paris.
APLEXIA Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1:220. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833 = *Leersia* Sw. (1788), *nom. conserv.* (*Homalocenchrus* Mieg, 1760).
virgata Raf. ex Jacks*. Ind. Kew. 1:162. 1893 (*Leersia virgata* Raf., *sphalm.* = *L. virginica* Willd.). Eastern United States = seq.
virginica Raf. ex Jacks*. l.c. (*Leersia virginica* Willd.). Eastern United States.
 ***APLOCERA** Raf. Med. Fl. 2:193. 1830, *nom. nov.* *Monocera* Ell. = *Ctenium* Panzer (1813) *nom. conserv.* (*Campulosus* Desv., 1810).
 **maritima* Raf. l.c., *nom.* (*Monocera* [aromatica Ell.]). Carolina = *Ctenium aromaticum* (Walt.) Wood.
ARISTIDA Linn.
geniculata Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *descr.*; Fl. Ludovic. 170. 1817, *nom.* Long Island, N. Y. = *Aristida longespica* Poir., var. *geniculata* (Raf.) Fernald, *Rhodora* 35:318. 1933.
ASPERELLA Humb. = *Hystrix* Moench.
echidnea Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.* (*Elymus hystrix* Linn.). North America = *Hystrix patula* Moench.
BENNETTIA Raf. Seringe Bull. Bot. 1:220. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1838, non *Bennettia* S. F. Gray (1821), nec DC. (1837), nec R. Br. (1838), nec Miq. (1858) = *Sporobolus* R. Br. (1810).
juncea Raf. ex Jacks*. Ind. Kew. 1:291. 1893 (*Agrostis juncea* Michx.). Eastern North America = *Sporobolus junceus* (Michx.) Kunth.
BULBILIS Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.* (*Sesleria dactyloides* Nutt.); Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.* (*Sesleria dactyloides* Nutt.) = *Buchloë* Engelm. (1859), *nom. conserv.* (*Bulbilis* Raf., 1819).

- dactyloides Raf. ex Kuntze, Rev. Gen. Pl. 2:763. 1891. North America=Buchloë dactyloides (Nutt.) Engelm.
- ***CHLOAMMIA** Raf. Neogen. 4. 1825, *descr.*; Seringe, Bull. Bot. 1:221. 1830, *descr.* (Type *Festuca tenella* Willd.). North America=Festuca Linn. (*Vulpia* C. C. Gmel.).
- †**CHLOAMNIA** Raf. ex Schlecht. Linnaea 8: Lit.-Ber. 85. 1833, *descr.* (*Festuca tenella* Willd.)=praec.
- CHLOROSTIS** Raf. Princ. Somiol. 26, 29. 1814, *nom. nov.* Chloris Sw.; Fl. Tellur. 1:84. 1836 [1837], *nom.* (Chloris Sw.).
- CRITESION** Raf. Jour. Phys. Chim. Hist. Nat. 89:103. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *descr.*; Herb. Raf. 41. 1833, *nom.*=Hordeum Linn.
- geniculatum* Raf. Il.cc., *descr.* (*Hordeum jubatum* sensu Pursh). Illinois=Hordeum jubatum Linn.
- DASIOLA** Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1: 221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit. Ber. 85. 1833=Festuca Linn. (*Vulpia* C. C. Gmel.).
- elliotea* Raf. Neogen. 4. 1825, *descr.* (*Festuca monandra* Ell. in herb.). Southeastern United States=Vulpia elliotea (Raf.) Fernald, Rhodora 47:106. 1945 (*Festuca sciurea* Nutt.).
- DIARINA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:169. 1809 (*Festuca diandra* Michx.); Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom.* (*Festuca diandra* Michx.); Jour. Phys. Chim. Hist. Nat. 89:104. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *descr.*=Diarrhena Beauv. (1812), *nom. conserv.* (*Diarina* Raf., 1808; *Corycarpus* ("Korycarpus") Zea, 1816).
- festucoides* Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:169. 1809, *nom.* (*Festuca diandra* Michx.); A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* (*Festuca diandra* Michx.). North America=Diarrhena festucoides (Raf.) Fernald, Rhodora 34:204. 1932; 35:39. 1933 (*D. diandra* Wood).
- sylvatica* Raf. Jour. Phys. Chim. Hist. Nat. 89:104. 1819, *nom.* (*Festuca diandra* Michx.); Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *nom.* (*Festuca diandra* Michx.). Eastern United States=praec.
- DILEPYRUM** Raf. Med. Repos. II. 5:353. 1808, *nom. nov.* *Oryzopsis* Michx.; Jour. Bot. (Paris) 2:172. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 1:427. 1817, *nom.*, *nota*; op. cit. 2:175. 1818, *nom.*, *nota*; op. cit. 4:195. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*, *nota*; Med. Fl. 2:249. 1830, *nom.*, *nota*; Loud. Gard. Mag. 8:245. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 68. 1833, iter. Britten, Jour. Bot. 38:226. 1900=Oryzopsis Michx. (1803).
- **angustifolium* Raf. Med. Fl. 2:249. 1830, *nom.*, *nota*. North America.
- #**DILEUCADEN** Raf. Seringe Bull. Bot. 1:220. 1830, *descr.*, sect. *Panicum* Linn. (Type *Panicum scoparium* Lam.), iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=Panicum Linn.
- DIMEIOSTEMON** Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit. Ber. 85. 1833=Andropogon Linn.
- macrurus* Raf. ex Jacks*. Ind. Kew. 1:760. 1893. (*Andropogon macrourus* Michx.). North America=Andropogon glomeratus (Walt.) Britton, Sterns & Poggenb.
- sessiliflorus* Raf. ex Jacks*. l.c. (*Andropogon sessiliflorus* Raf.) Hab.?
- tetrastachys* Raf. ex Jacks*. l.c. (*Andropogon tetrastachys* Ell.). Southeastern United States=Andropogon virginicus Linn.
- vaginatus* Raf. ex Jacks*. l.c. (*Andropogon vaginatus* sensu Ell.). Southeastern United States=Andropogon virginicus Linn.
- †**DIMESIA** Raf. Am. Monthly Mag. Crit. Rev. 1:442. 1817, *descr.*; op. cit. 2:175. 1818, *nom.* (*Holcus fragrans* Willd.); op. cit. 4:188. 190. 1819, *nom.* (*Holcus fragrans* Willd.); Fl. Ludovic. 169. 1817, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.*, *nota*=Hierochloë R. Br. (1810), *nom. conserv.* (Savastana Schrank, 1789).
- fragrans* Raf. Am. Monthly Mag. Crit. Rev. 1:442. 1817, *nom.* (*Holcus fragrans* Willd.). North America=Hierochloë odorata (Linn.) Beauv.
- monticola* Raf. l.c., *descr.* (*Holcus monticola* Bigel.). White Mountains of New Hampshire=Hierochloë alpina (Sw.) Roem. & Schult.
- DIPLOCEA** Raf. Am. Jour. Sci. 1:252. 1818, *descr.*; Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.*, *nota*; Isis von Oken 1822, 2:1324. 1822, *descr.*=Triplasis Beauv. (1812).
- barbata* Raf. Am. Jour. Sci. 1:253. 1818, *descr.*; Isis von Oken l.c., *descr.* Long Island, Carolina=Triplasis purpurea (Walt.) Chapm.
- DISTICHLIS** Raf. Jour. Phys. Chim. Hist. Nat. 89:104. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *descr.*
- maritima* Raf. Il.cc., *nom.* (*Uniola spicata* Linn.; *U. maritima* Michx.). North America=Distichlis spicata (Linn.) Greene, et quoad syn. Michx., *Uniola paniculata* Linn.
- nodosa* Raf. Il.cc., *nom.* (*Festuca distichophylla* Michx.; *F. "triticea"* [*triticeoides*] Lam.). North America=Distichlis spicata (Linn.) Greene.
- EATONIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:104. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *descr.*=Panicum Linn.
- purpurascens* Raf. Jour. Phys. l.c., Isis von Oken, op. cit. 242, *descr.* (*Aira truncata* Muhl.; *A. pensylvanica* Spreng.; *A. obtusata* Michx.; *Airopsis obtusata* Desv.; *Koeleria pensylvanica* DC.; *Holcus striatus* sensu Barton.). Salt marshes New York. Quoad *descr.*=Panicum virgatum Linn., quoad syn.=Sphenopholis obtusata (Michx.) Scribn., *S. nitida* (Spreng.) Scribn., et *S. pallens* (Spreng.) Scribn.²
- ELEUSINE** Gaertn.
- **aegyptia* Raf. Chloris Aetn. 7. 1815, *nom.*=Dactyloctenium aegyptium (Linn.) Beauv. Agrost., Expl. Pl. 10. 1812; Aschers. & Graebn. Illus. Fl. Egypt. (Mém. Inst. Egypt. 2: 171. 1887); Richt. Fl. Europ. 2:68. 1889 (*D. aegyptiacum* Desf.).
- †*ciiliata* Raf. Précis Découv. Somiol. 45. 1814, *descr.*, iter. Jour. Bot. (Desv.) 4:273. 1814; Chloris Aetn. 7. 1815, *nom.* Sicily.
- **egyptia* Raf. Précis Découv. Somiol. l.c., *nom.*, in nota Sicily=Dactyloctenium aegyptium (Linn.) Beauv.
- ENDALLEX** Raf. Seringe Bull. Bot. 1:220. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=Phalaris Linn.
- arundinacea* Raf. ex Jacks*. Ind. Kew. 1:839. 1893 (*Phalaris arundinacea* Linn.). North temperate regions.
- ENDODIA** Raf. Neogen. 4. 1825, *descr.* (Type *Leersia lenticularis* Michx.); Seringe Bull. Bot. 1:220. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=Leersia Sw. (1788), *nom. conserv.* (*Homalocenchrus* Mieg, 1762).
- lenticularis* Raf. ex Jacks*. Ind. Kew. 1:840. 1893 (*Leersia lenticularis* Michx.). Eastern United States.
- EROCHLOË** Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833=Eragrostis Host (1809).
- amabilis* Raf. ex Jacks*. Ind. Kew. 1:886. 1893 (*Poa amabilis* Linn.)=Eragrostis amabilis (Linn.) Wight & Arn. Pantropic.
- spectabilis* Raf. ex Jacks*. l.c. (*Poa spectabilis* Pursh). North America=Eragrostis spectabilis (Pursh) Steud.
- FLEXULARIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:105. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *descr.* Quid?
- compressa* Raf. Il.cc., *descr.* Kentucky, Ohio.
- #**GLANDILOBA** Raf. Seringe Bull. Bot. 1:220. 1830, *descr.*, sect. *Panicum* Linn. (Type *Panicum molle* Michx.), iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=Eriochloa H.B.K. (1815).
- LEERSIA** Sw. (1788), *nom. conserv.* (*Homalocenchrus* Mieg, 1760).
- **virgata* Raf. Seringe Bull. Bot. 1:220. 1838, *nom.* sub *Aplexia* Raf., iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833, *sphalm.*=Leersia virginica Willd. Eastern North America.
- LEPTOCERCUS** Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom. nov.* *Lepturus* R. Br.
- ***LEPTOCEREUS** Raf. Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom. nov.* *Lepturus* R. Br.

² Scribner, F. L. The Genus *Sphenopholis*. Rhodora 8:137-146. 1906. Here Scribner called attention to the fact that Rafinesque's description did not appertain to the group to which the generic name *Eatonia* had long been misapplied. The synonyms cited above appear in a footnote that Scribner did not reproduce when he reprinted Rafinesque's original description of the genus and species.

- LEPTOPYRUM** Raf. Med. Repos. II. 5:351. 1808, *nom. subnud.*; Jour. Bot. (Paris) 2:168. 1809, *nom. subnud.* (aff. *Avena* Linn.). Quid?
- tenellum** Raf. Ilcc., *nom.* A. Gray, Am. Jour. Sci. 40:227. 1841, *nom. subnud.* Virginia.
- MACRONAX** Raf. Med. Repos. II. 5:353. 1808, *nom. nov.* *Arundinaria* Michx.; Jour. Bot. (Paris) 2:172. 1809, *nom.* (*Arundinaria* Michx.).
- MAYZEA** Raf. Med. Fl. 2:241. 1830, *nom. nov.* *Zea* Linn.; Fl. Tellur. 1:85, 86. 1836 [1837], *nom.* (*Zea* Linn.); Sylva Tellur. 1:17. 1838, *nom.* (*Zea* Linn.).
- cerealis** Raf. Med. Fl. l.c., *nom. nov.* *Zea mays* Linn.; New Fl. N. Am. 1:32. 1836, *nom.* (*Zea mays* Linn.).
- var. **gigantea** Raf. Med. Fl. l.c., *descr.* Mexico.
- vestita** Raf. Med. Fl. l.c., *nom. subnud.* South America.
- MERATHREPTA** Raf. Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833=Danthonia DC. (1805).
- spicata** Raf. ex Jacks*. Ind. Kew. 2:211. 1894 (*Avena spicata* Linn.). North America=Danthonia spicata (Linn.) Beauv.
- *MIAGIA** Raf. Western Rev. Miscel. Mag. 1:93. 1819, *nom.*, *sphalm.*=Miegia Pers. (1805)=*Arundinaria* Michx. (1803).
- *arundinaria** Raf. l.c., *nom.* (*sphalm.* "*arupedinaria*"). Kentucky=Miegia arundinaria Raf. Prob.=*Arundinaria gigantea* (Walt.) Chapm.
- MIEGIA** Pers. (1805)=*Arundinaria* Michx. (1803).
- arundinaria** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky. Prob.=*Arundinaria gigantea* (Walt.) Chapm.
- MONATHERA** Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom. nov.* *Monocera* Ell. (1817); Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.* (*Monocera* Ell.)=Ctenium Panz. (1814), *nom. conserv.* (*Campulosus* Desv., 1810).
- MOULINSIA** Raf. Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833=Aristida Linn.
- lanosa** Raf. ex Jacks*. Ind. Kew. 2:267. 1894 (*Aristida lanosa* Muhl.). Eastern United States.
- †NEUROCTOLA** Raf. ex Schlecht. Linnaea 8: Lit.-Ber. 85. 1833, *descr.*=*Nevroctola* Raf. (1825)=*Uniola* Linn.
- NEVROCTOLA** Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1:221. 1830, *descr.*; iter. Schlecht. Linnaea 8: Lit.-Ber. 1833 (*Neuroctola*)=Uniola Linn.
- maritima** Raf. ex Jacks*. Ind. Kew. 2:311. 1894 (*Uniola maritima* Michx.)=Uniola paniculata Linn. Eastern North America.
- paniculata** Raf. ex Jacks*. l.c. (*Uniola paniculata* Linn.). Eastern North America.
- NEVROLOMA** Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, *descr.*=Glyceria R. Br. (1810), *nom. conserv.* (*Panicularia* Fabr., 1763).
- canadensis** Raf. ex Jacks*. Ind. Kew. 2:311. 1894 (*Briza canadensis* Michx.). Eastern North America=Panicularia canadensis O. Kuntze=Glyceria canadensis (Michx.) Trin.
- NOTONEMA** Raf. Neogen. 4. 1825, *nom.*; Seringe Bull. Bot. 1:220. 1830, *descr.*; iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=Agrostis Linn.
- agrostoides** Raf. ex Jacks*. Ind. Kew. 2:319. 1894 (*Agrostis arachnoides* Ell., non Poir.). Southern United States=Agrostis elliottiana Schult.
- *ORIZOPSIS** Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:172. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom.*=Oryzopsis Michx. (1803).
- PANICUM** Linn.
- *flexuosum** Raf. Précis Découv. Somiol. 45. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.*, non Retz. (1783). New Jersey.
- pumilum** Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- *uniflorum** Raf. Am. Monthly Mag. Crit. Rev. 2:120. 1817, *descr.*; Fl. Ludovic. 170. 1817, *nom.* Long Island, at Flat-bush.
- PASPALUM** Linn.
- *compressum** Raf. Fl. Ludovic. 15. 1817, *descr.* (*Panic 1* Rob. Voy. Louis. 3:335. 1817). Louisiana.
- geniculatum** Raf. l.c., *descr.* (*Panic 2* Rob. Voy. Louis. 3:335. 1817). Louisiana.
- #PHANOPYRUM** Raf. Seringe Bull. Bot. 1:220. 1830, *descr.*, sect. *Panicum* Linn. (Type *Panicum gymnocarpon* Ell.), iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=Panicum Linn. (*Phanopyrum* Nash.)
- POA** Linn.
- *multicaulis** Raf. ex M'Murtrie, Sketch. Louisv. 223. 1819, *nom.* Kentucky.
- tenuiflora** Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- *viridis** Raf. Med. Repos. op. cit. 253, *nom.*; Jour. Bot. (Paris) l.c., *nom.* Central Atlantic United States.
- *POAGRIS** Raf. Fl. Tellur. 1:18. 1836 [1837], *nom. nov.* *Poa* Linn.
- PODOPOGON** Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833=Stipa Linn.
- avenaceus** Raf. ex Jacks*. Ind. Kew. 2:580. 1894 (*Stipa avenacea* Linn.). Eastern North America.
- barbatus** Raf. ex Jacks*. l.c. (*Stipa barbata* Michx.). Eastern North America=Stipa avenacea Linn.
- PORANTHERA** Raf. Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833, non Rudge (1811)=Sorghastrum Nash (1901).
- ciliata** Raf. ex Jacks*. Ind. Kew. 2:606. 1894 (*Andropogon ciliatus* Ell.). North America=seq.
- nutans** Raf. ex Jacks*. l.c. (*Andropogon nutans* Linn.). North America=Sorghastrum nutans (Linn.) Nash.
- RYTILIX** Raf. Seringe Bull. Bot. 1:219. 1830, *nom.* ("*Manisuris granularis* et *myurus* auct."), iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833, p.p.=Hackelochloa O. Kuntze (1891), p.p.=Manisuris Linn. (1771).
- glandulosa** Raf. l.c., *nom.* [*Manisuris granularis* Linn.] =Hackelochloa granularis (Linn.) O. Kuntze. Tropical regions.
- SACCHARUM** Linn.
- *polygamum** Raf. Statist. Gen. Sicil. 29. 1810, *nom.* Sicily.
- SANTIA** Savi (1798)=Polypogon Desf. (1800).
- unioloides** Raf. Chloris Aetn. 7. 1815, *nom.* (*Poa sicula* Jacq.; *Triticum unioloides* Ait.). Europe=Desmazeria (Demazeria) sicula (Jacq.) Dum.
- *SCHMIEDTIA** Raf. Aut. Bot. 187. 1840, *nom.*, *sphalm.*=Schmidtia Tratt. (1816), non Moench. (1802)=Coleanthus Seidl. (1817), *nom. conserv.*
- SERICOSTIS** Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1:220. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833 (*Stipa sericea* Michx.; *Stipa diffusa* Walt.)=Muhlenbergia Schreb. (1789).
- SITANION** Raf. Jour. Phys. Chim. Hist. Nat. 89:103. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *descr.*; Herb. Raf. 40. 1833, *nom.*
- elymoides** Raf. Ilcc., *descr.*; Herb. Raf. 40. 1833, *nom.* Missouri=Sitanion hystrix (Nutt.) J. G. Smith.
- SMIDETIA** Raf. Aut. Bot. 187. 1840, *descr.* (*Schmidtia* Tratt.); Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*=Coleanthus Seidl. (1817), *nom. conserv.* (*Schmidtia* Tratt., 1816).
- *humilis** Raf. l.c., *descr.* (*Schmidtia subtilis* Tratt.). Bohemia=Coleanthus subtilis (Tratt.) Seidl.
- SPIROTHEROS** Raf. Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833=Heteropogon Pers. (1807).
- melanocarpus** Raf. ex Jacks*. Ind. Kew. 2:967. 1895 (*Stipa melanocarpa* Muhl.; *Andropogon melanocarpus* Ell.). Southeastern United States=Heteropogon melanocarpus (Ell.) Benth.
- STEINCHISMA** Raf. Seringe Bull. Bot. 1:220. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1835=Panicum Linn.
- divaricata** Raf. ex Jacks*. Ind. Kew. 2:982. 1895 (*Panicum divaricatum* Michx.). Eastern North America
- hians** Raf. ex Jacks*. l.c. (*Panicum hians* Ell.). Southeastern United States.
- STIPA** Linn.
- *cericea** Raf. Neogen. 4. 1825, *nom.*, *sphalm.*=S. sericea Michx. Eastern North America=Muhlenbergia capillaris (Lam.) Trin. var. filipes (M. A. Curtis) Chapm.
- #TRIANTHUSA** Raf. Am. Monthly Mag. Crit. Rev. 1:442. 1817, *descr.*, subgen. *Melica* Linn. (*Melica triflora* Bigelow; *M. aspera* Desf.).
- *TRIATHERUS** Raf. Am. Monthly Mag. Crit. Rev. 3:99. 1818 *nom. nov.* *Monocera* Ell. (1817)=Ctenium Panz. (1814), *nom. conserv.* (*Campulosus* Desv., 1810).
- *aromaticus** Raf. l.c., *nom.* (*Monocera aromatica* Ell.). Southeastern United States=Ctenium aromaticum (Walt.) Wood.

TRISIOLO Raf. Fl. Ludovic. 144. 1817, *nom., nota* (*Uniola paniculata* Linn.; *U. maritima* Michx.); Am. Monthly Mag. Crit. Rev. 2:175. 1817, *nom., nota* (*Uniola paniculata* Linn.); op. cit. 4:188, 190. 1819, *nom., nota*; Jour. Phys. Chim. Hist. Nat. 89:104. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 241. 1820, *descr.*; Seringe Bull. Bot. 1:221. 1830, *nom.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833=*Uniola* Linn.

paniculata Raf. Fl. Ludovic. 144. 1817, *nom., nota* (*Uniola paniculata* Linn.; *U. maritima* Michx.). Louisiana=*Uniola paniculata* Linn. et quoad *U. maritima* Michx., *Distichlis spicata* (Linn.) Greene.

***TRISIOLO** Raf. Neogen. 4. 1825, *descr.* (*Uniola spicata* Linn.; *Festuca disticophylla* Michx.)=*Distichlis* Raf. (1819).

TRITICUM Linn.

**aestivum* Raf. Fl. Ludovic. 16. 1817, *nom.* (*Elymus* sp. Rob. Voy. Louis. 3:335. 1807). Louisiana=*Triticum aestivum* Linn.

TRIUNILA Raf. Neogen. 4. 1825, *nom. nov. provis.* *Uniola* Linn.

TRIXOSTIS Raf. Seringe Bull. Bot. 1:221. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 85. 1833=*Aristida* Linn.

gracilis Raf. ex Jacks*. Ind. Kew. 2:1131. 1895 (*Aristida gracilis* Ell.). Eastern North America=*Aristida longespica* Poir.

***URALEPIS** Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom. nov.* *Uralepsis* Nutt. (1818)=*Triplasis* Beauv. (1812).

CYPERACEAE

#**ADENOTRIX** Raf. Seringe Bull. Bot. 1:219. 1830, *descr.*, sect. *Scirpus* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833 (Type *Scirpus simplex* Ell.)=*Eleocharis* R. Br. (1810).

***AGISTRON** Raf. Good Book 28. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 28=*Uncinia* Pers. (1807).

**erinacea* Raf. l.c., *nom.* (*Uncinia erinacea* Pers.). South America.

**phleoides* Raf. l.c., *nom.* (*Uncinia phleoides* Pers.). South America.

***ANITHISTA** Raf. Good Book 26. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 26=*Carex* Linn.

**clavata* Raf. l.c., *nom.* (*Carex clavata* Thunb.). South Africa.

**flava* Raf. l.c., *nom.* (*Carex flava* Linn.). North temperate zone.

**lacustris* Raf. l.c., *nom.* (*Carex lacustris* Schkuhr). Europe.

**latifolia* Raf. l.c., *nom.* (*Carex latifolia* Moench). North America=*Carex plantaginea* Lam.

**littorea* Raf. l.c., *nom.* (*Carex littorea* Labill.). Australia.

**patula* Raf. l.c., *nom.* (*Carex patula* Schkuhr). Europe.

**riparia* Raf. l.c., *nom.* (*Carex riparia* Muhl.). North America.

**triticea* Raf. l.c., *nom.* (*Carex triticea* Wahlenb.). South Africa.

†**APLOSTEMON** Raf. Am. Monthly Mag. Crit. Rev. 1:441. 1817, *descr.*; op. cit. 4:188. 1819, *nom.*; Fl. Ludovic. 169. 1817, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:105. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *descr.* =*Scirpus* Linn.

atropurpureum Raf. ex Jacks*. Ind. Kew. 1:163. 1893 (*Scirpus atropurpureus* Retz.). Temperate and tropical regions=*Eleocharis atropurpurea* (Retz.) Presl.

†*bracteatum* Raf. Am. Monthly Mag. Crit. Rev. 1:441. 1817, *descr.* (*Scirpus bracteatus* Bigelow). White Mountains of New Hampshire=*Scirpus cespitosus* Linn. var. *callosus* Bigel.; see Fernald, Rhodora 23:44. 1921.

compressum Raf. Jour. Phys. Chim. Hist. Nat. 89:105. 1819, *nom.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *nom.* Hab.?

polytrichoides Raf. ex Jacks*. Ind. Kew. 1:163. 1893 (*Scirpus polytrichoides* Retz.). Old World tropics=*Fimbristylis polytrichoides* (Retz.) R. Br.

†*triquetrum* Raf. Am. Monthly Mag. Crit. Rev. 1:441. 1817, *descr.*; Jour. Phys. Chim. Hist. Nat. 89:105. 1819, *nom.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *nom.* (*Scirpus monander* Rottb.). India=*Fimbristylis argentea* Vahl.

#**ARETHRYON** Raf. Seringe Bull. Bot. 1:219. 1830, *descr.*; sect. *Cyperus* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=*Pycneus* Beauv. (1807)=*Cyperus* Linn.

CAREX Linn.

**barati* Raf. Good Book 26. 1840, *nom.*, 1913 repr. Nat. Fam. Carex. 26, *sphalm.* Eastern North America=*Carex baratti* Torr.

disticha Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*, non Huds. (1762). Central Atlantic United States.

**falcata* Raf. Herb. Raf. 40. 1833, *nom.* Upper Missouri (Mandan Country)=Dakota.

**flaccida* Raf. l.c., *nom.* Upper Missouri (Mandan Country)=Dakota.

**hispanica* Raf. Good Book 27. 1840, *nom.*, 1913 repr. Nat. Fam. Carex. 27, *nom.* Spain.

**macrophylla* Raf. Herb. Raf. 40. 1833, *nom.* Upper Missouri (Mandan Country)=Dakota.

**sudeta* Raf. op. cit. 27, *nom.*, *sphalm.*, 1913 repr. Nat. Fam. Carex. 27, *nom.* Europe=*Carex sudetica* Opiz.

tenella Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.

#**COSTULARIA** Raf. Good Book 25. 1840, *descr.*, subgen. *Carex* Linn., 1913 repr. Nat. Fam. Carex. 25 (Type *Carex lupulina* Muhl.)=*Carex* Linn.

***DEWEYA** Raf. Good Book 26. 1840, *descr.*, 1913, repr. Nat. Fam. Carex. 26. non Torr. & Gray (1840)=*Carex* Linn.

**anceps* Raf. l.c., *nom.* (*Carex anceps* Muhl.). North America =*Carex laxiflora* Lam.

**blanda* Raf. l.c., *nom.* (*Carex blanda* Dewey). North America.

**granularis* Raf. l.c., *nom.* (*Carex granularis* Muhl.). North America.

**oligocarpa* Raf. l.c., *nom.* (*Carex oligocarpa* Schkuhr). North America.

**plantaginea* Raf. l.c., *nom.* (*Carex plantaginea* Lam.). North America.

#**DEWISIA** Raf. Seringe Bull. Bot. 1:219. 1830, *descr.* sect. *Cyperus* Linn. (*C. diandrus* Torr.; *C. nuttalli* Torr.), iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833=*Pycneus* Beauv. (1807)=*Cyperus* Linn.

DICHISMUS Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *nom. subnud.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *nom. subnud.*=*Scirpus* Linn.

***DIEMISA** Raf. Good Book 27. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 27=*Carex* Linn.

**capitata* Raf. l.c., *nom.* (*Carex capitata* Linn.). Europe.

**cephalophora* Raf. l.c., *nom.* (*Carex cephalophora* Muhl.). North America.

**concolor* Raf. l.c., *nom.* (*Carex concolor* R. Br.). North America.

**crinita* Raf. l.c., *nom.* (*Carex crinita* Lam.). North America.

**filiformis* Raf. l.c., *nom.* (*Carex filiformis* Linn.). Eurasia.

**pellita* Raf. l.c., *nom.*, *sphalm.* (*Carex pellita* Muhl.). North America=*Carex lanuginosa* Michx.

**pubescens* Raf. l.c., *nom.* (*Carex pubescens* Muhl.). North America.

**remota* Raf. l.c., *nom.* (*Carex remota* Linn.). Temperate and boreal regions.

**retroflexa* Raf. l.c., *nom.* (*Carex retroflexa* Muhl.). North America.

**rosea* Raf. l.c., *nom.* (*Carex rosea* Schkuhr). North America.

**splendens* Raf. l.c., *nom.* (*Carex splendens* Thuill.). Europe.

**stricta* Raf. l.c., *nom.* (*Carex stricta* Good.). North America =*Carex stricta* Lam.

**tenera* Raf. l.c., *nom.* (*Carex tenera* Dewey). North America.

DIPLARINUS Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *nom., nota*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *nom., nota*=*Scirpus* Linn.

#**DISTIMEX** Raf. Good Book 83. 1840, *nom. subnud.*, subgen. *Carex* Linn.=*Carex* Linn.

DISTIMUS Raf. Jour. Phys. Chim. Hist. Nat. 89:105. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *descr.*=*Pycneus* Beauv. (1807)=*Cyperus* Linn.

flavescens Raf. ex Jacks*. Ind. Kew. 1:782. 1893 (*Cyperus flavescens* Linn.). Cosmopolitan.

flavicomus Raf. ex Jacks*. l.c. (*Cyperus flavicomus* Michx.). Southeastern United States.

#**DISTINAX** Raf. Seringe Bull. Bot. 1:219. 1830, *nom. subnud.*, sect. *Carex* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833=*Carex* Linn.

***EDRITRIA** Raf. Good Book 26. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 26=*Carex* Linn.

**compressa* Raf. l.c., *nom.* (*Carex compressa* Hose). Europe.

*EDRITRIA (continued).

- **concinna* Raf. l.c., nom. (*Carex concinna* R. Br.). Arctic America.
- **dasycarpa* Raf. l.c., nom. (*Carex dasycarpa* Muhl.). Eastern North America.
- **digitalis* Raf. l.c., nom. (*Carex digitalis* Willd.). Eastern North America.
- **ferruginea* Raf. l.c., nom. (*Carex ferruginea* Scop.). Europe.
- **formosa* Raf. l.c., nom. (*Carex formosa* Dewey). Eastern North America.
- **glaucescens* Raf. l.c., nom. (*Carex glaucescens* Ell.). South-eastern United States.
- **levigata* Raf. l.c., nom. (*Carex laevigata* Sm.). Europe.
- **linki* Raf. l.c., nom. (*Carex linkii* Willd.). Mediterranean region.
- **livida* Raf. l.c., nom. (*Carex livida* Willd.). Temperate and boreal regions.
- **mucronata* Raf. l.c., nom. (*Carex mucronata* All.). Mediterranean region.
- **paludosa* Raf. l.c., nom. (*Carex paludosa* Good.). Temperate and boreal regions=*Carex acutiformis* Ehrh.
- **parviflora* Raf. l.c., nom. (*Carex parviflora* Host). Europe.
- **petrea* Raf. l.c., nom. (*Carex petrea* Wahl.). Europe, North America=*C. rupestris* All.
- **pubescens* Raf. l.c., nom. (*Carex pubescens* Muhl.). Eastern North America=*Carex hirtifolia* Mackenzie.
- **recurva* Raf. l.c., nom. (*Carex recurva* Muhl.). Southeastern United States=*Carex cherokeensis* Schwein.
- **rupestris* Raf. l.c., nom. (*Carex rupestris* All.). Europe.
- **schkuhri* Raf. l.c., nom. (*Carex schkuhrii* Willd.). Europe=*Carex supina* Willd.
- **supina* Raf. l.c., nom. (*Carex supina* Willd.) Temperate and boreal regions.
- **sylvatica* Raf. l.c., nom. (*Carex sylvatica* Huds.). Europe.
- **viridula* Raf. l.c., nom. (*Carex viridula* Michx.). Eastern North America.
- **vulpina* Raf. l.c., nom. (*Carex vulpina* Linn.). Europe.
- ***FACOLOS** Raf. Good Book 26. 1840, 1913, repr. Nat. Fam. Carex. 26, descr.=*Carex* Linn.
- **brunnescens* Raf. l.c., nom. (*Carex brunnescens* Poir.). Europe.
- **complanata* Raf. l.c., nom. (*Carex complanata* Torr. & Hook.). North America.
- **curta* Raf. l.c., nom. (*Carex curta* Good.). England=*Carex canescens* Linn.
- **limosa* Raf. l.c., nom. (*Carex limosa* Linn.). Europe.
- ***FOREXETA** Raf. Good Book 28. 1840, descr., 1913, repr. Nat. Fam. Carex. 28=*Carex* Linn.
- **nepalensis* Raf. l.c., nom. (*Carex nepalensis* Spreng.). Nepal.
- **phylostachys* Raf. l.c., nom. (*Carex phyllostachys* C. A. Mey.). Caucasus, Persia.
- #**FOVEOLIDIA** Raf. Seringe Bull. Bot. 1:219. 1830, nom., iter. Schlecht Linnaea 8: Lit.-Ber. 83. 1833, sect. *Scleria* Berg. (Type, *Scleria reticularis* Michx.).
- ***FUSARINA** Raf. Good Book 28. 1840, nom., nota, 1913, repr. Nat. Fam. Carex. 28 (Type, *Uncinia gracilis* Thouars.). Tristan da Cunha=*Uncinia* Pers. (1807).
- HEDYCHLOA** Raf. ex Jacks*. Ind. Kew. 1:1100. 1893=*Hedychloë* Raf.=*Kyllinga* Rottb. (1773), non *Killingia* Adans. (1763), nom. conserv. (*Thryocephalon* J. R. & G. Forst., 1776)=*Cyperus* Linn., sensu lat.
- fragrans* Raf. ex Jacks*. l.c. (*Hedychloë fragrans* Raf.). Carolina to Illinois=*Kyllinga pumila* Michx.
- ***HEDYCHLOE** Raf. Ann. Nat. Ann. Synop. 16. 1820, descr.=*praec.*
- **fragrans* Raf. l.c., nom. (*Kyllinga* [*Kyllingia*] *pumila* Michx.); First Cat. Bot. Gard. Transylv. Univ. 14. 1824, nom. (*Kyllinga* [*Kyllingia*] *pumila* Michx.); Herb. Raf. 63. 1833, nom. (*Kyllingia pumila* Michx.). Carolina to Illinois=*Kyllinga pumila* Michx.
- **pumila* Raf. Med. Fl. 2:226. 1830, nom. (*Kyllinga* [*Kyllingia*] *pumila* Michx.). Eastern North America=*Kyllinga pumila* Michx.
- #**HELOTRIX** Raf. Seringe Bull. Bot. 1:219. 1830, descr., sect. *Scirpus* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833 (Type *Scirpus mucronatus* Linn.)=*Scirpus* Linn.
- #**HIPPOTRIX** Raf. Seringe Bull. Bot. 1:219. 1830, descr., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833, sect. *Scirpus* Linn. (Types *Scirpus quadrangularis* Thouars; *S. equisetoides* Ell.).
- ***THETA** Raf. Good Book 28. 1840, descr., 1913 repr. Nat. Fam. Carex. 28=*Carex* Linn.
- **brevisetia* Raf. l.c., nom. (*Uncinia brevisetia* Torr.). North America=*Carex filifolia* Nutt.
- ***KOLERMA** Raf. Good Book 27. 1840, descr., 1913, repr. Nat. Fam. Carex. 27=*Carex* Linn.
- **alata* Raf. l.c., nom. (*Carex alata* Torr.). North America.
- #**LENTEX** Raf. Seringe Bull. Bot. 1:219. 1830, descr., sect. *Carex* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833; Good Book 83. 1840, descr., sub *Carex*, "subgen. vel subfam."=*Carex* Linn.
- ***LONCOPERIS** Raf. Good Book 27. 1840, descr., 1913 repr. Nat. Fam. Carex. 27=*Carex* Linn.
- **bromoides* Raf. l.c., nom. (*Carex bromoides* Schkuhr). North America.
- **scoparia* Raf. l.c., nom. (*Carex scoparia* Schkuhr). North America.
- **stipata* Raf. l.c., nom. (*Carex stipata* Muhl.). North America.
- ***LOXANISA** Raf. Good Book 25. 1840, descr.; 1913 repr. Nat. Fam. Carex. 25=*Carex* Linn.
- **atrata* Raf. op. cit. 26, nom. (*Carex atrata* Linn.). Boreal and Arctic regions.
- **gracilima* Raf. l.c., nom. (*Carex gracilima* Schwein.). North America.
- ***LOXTREMA** Raf. Good Book 25. 1840, descr., 1913 repr. Nat. Fam. Carex. 25=*Carex* Linn.
- **alpestris* Raf. l.c., nom. (*Carex alpestris* Dewey). North America.
- **capillaris* Raf. l.c., nom. (*Carex capillaris* Linn.). Boreal and Arctic regions.
- **castanea* Raf. l.c., nom. (*Carex castanea* Wahl.). North America.
- **cuspidata* Raf. l.c., nom. (*Carex cuspidata* Host). Europe.
- **davisi* Raf. l.c., nom. (*Carex davisi* Schwein. & Torr.). North America.
- **halseyi* Raf. l.c., nom. (*Carex halseyana* Dewey). North America=*Carex polymorpha* Muhl.
- **hitchcocki* Raf. l.c., nom. (*Carex hitchcockiana* Dewey). North America.
- **leptostachys* Raf. l.c., nom. (*Carex leptostachya* Ehrh.). Europe.
- **lusitanica* Raf. l.c., nom. (*Carex lusitanica* Schkuhr). Europe.
- **pilosa* Raf. l.c., nom. (*Carex pilosa* Scop.). Italy.
- **triflora* Raf. l.c., nom. (*Carex triflora* Schkuhr). Europe.
- **tuberosa* Raf. l.c., nom. (*Carex tuberosa* Degl.). Europe.
- **vestita* Raf. l.c., nom. (*Carex vestita* Willd.). North America.
- #**MARGALEIA** Raf. Seringe Bull. Bot. 1:219. 1830, descr., sect. *Scleria* Berg., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833=*Scleria* Berg. (1765).
- MEGADENUS** Raf. Neogen. 4. 1825, descr.; Seringe Bull. Bot. 1:219. 1830, descr., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833=*Eleocharis* R. Br. (1810).
- capitatus* Raf. ex Jacks*. Ind. Kew. 2:185. 1894 (*Scirpus capitatus* Linn.). Pantropic=*Eleocharis capitata* (Linn.) R. Br.
- palustris* Raf. ex Jacks*. l.c. (*Scirpus palustris* Linn.). Europe, North America=*Eleocharis palustris* (Linn.) R. Br.
- tuberculatus* ex Jacks*. l.c. (*Scirpus tuberculatus* Ell.). Eastern North America=*Eleocharis tuberculosa* (Michx.) R. Br.
- ***MELTREMA** Raf. Good Book 26. 1840, 1913 repr. Nat. Fam. Carex. 26. nom. alt. Dewey Raf.=*Carex* Linn.
- #**MYTISKIS** Raf. Good Book 26. 1840, descr., 1913 repr. Nat. Fam. Carex. 26, subgen. *Anithista* Raf. (Type *Carex flava* Linn.)=*Carex* Linn.
- ***NEKIZA** Raf. Good Book 27. 1840, descr., 1913 repr. Nat. Fam. Carex. 27=*Carex* Linn.
- **aquatis* Raf. l.c., nom. (*Carex aquatis* Wahl.). Boreal regions.
- **aurea* Raf. l.c., nom. (*Carex aurea* Nutt.). North America.
- **caespitosa* Raf. l.c., nom. (*Carex caespitosa* Linn.). Boreal regions.
- **crinita* Raf. l.c., nom. (*Carex crinita* Lam.). North America.
- **glareosa* Raf. l.c., nom. (*Carex glareosa* Wahl.). Scandinavia, North America.
- **liolicea* Raf. l.c., nom. (*Carex loliacea* Linn.). Boreal regions.
- **salina* Raf. l.c., nom. (*Carex salina* Wahl.). Norway=*C. lanceata* Dewey.
- **saxatilis* Raf. l.c., nom. (*Carex saxatilis* Schkuhr). Europe=*C. concolor* R. Br.
- **trisperma* Raf. l.c., nom. (*Carex trisperma* Dewey). North America.

- ***OLAMBLIS** Raf. Good Book 26. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 26=*Carex* Linn.
- ***barati** Raf. l.c., *nom.* (*Carex barratti* Torr.). North America.
- ***barrattii** Raf. ex Mackenzie N. Am. Fl. 18:349. 1935, *nom.* in syn.=*praec.*
- ***elliotti** Raf. l.c., *nom.* (*Carex elliottii* Schwein. & Torr.). North America.
- ***fraseri** Raf. l.c., *nom.* (*Carex fraseri* Andr.). North America=*Cymophyllus fraseri* (Andr.) Mackenzie.
- ***hirsuta** Raf. l.c., *nom.* (*Carex hirsuta* Willd.). North America=*C. hirsutella* Mackenzie.
- ***laxa** Raf. l.c., *nom.* (*Carex laxa* Wahl.). Northern Europe.
- ***miliacea** Raf. l.c., *nom.* (*Carex miliacea* Muhl.). North America=*C. prasina* Wahl.
- ***oakesi** Raf. l.c., *nom.* (*Carex oakesiana* Torr.). North America=*C. oligosperma* Michx.
- ***verna** Raf. l.c., *nom.* (*Carex verna* Chaix). North America=*C. caryophyllea* Latourr.
- ***virescens** Raf. l.c., *nom.* (*Carex virescens* Muhl.). North America.
- ***OLOTREMA** Raf. Good Book 25. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 25=*Carex* Linn.
- ***acuminata** Raf. l.c., *nom.* (*Carex acuminata* Schwein.). Eastern North America=*C. styloflexa* Buckl.
- ***brunnea** Raf. l.c., *nom.* (*Carex brunnea* Thunb.). Japan.
- ***collinsi** Raf. l.c., *nom.* (*Carex collinsii* Nutt.). North America.
- ***filifolia** Raf. l.c., *nom.* (*Carex filifolia* Nutt.). North America.
- ***gebhardi** Raf. l.c., *nom.* (*Carex gebhardi* Willd.). Europe.
- ***geminata** Raf. l.c., *nom.* (*Carex geminata* Schkuhr). New Zealand.
- ***gynobasis** Raf. l.c., *nom.* (*Carex gynobasis* Vill.). Europe.
- ***juncifolia** Raf. l.c., *nom.* (*Carex juncifolia* Lightf.). Europe, North America=*C. maritima* Gunner.
- ***leporina** Raf. l.c., *nom.* (*Carex leporina* Linn.). Northern regions.
- ***oligocarpa** Raf. l.c., *nom.* (*Carex oligocarpa* Schkuhr). North America.
- ***tetanica** Raf. l.c., *nom.* (*Carex tetanica* Schkuhr). North America.
- ***umbellata** Raf. l.c., *nom.* (*Carex umbellata* Schkuhr). North America.
- ***washingtoniana** Raf. l.c., *nom.* (*Carex washingtoniana* Dewey). North America=*C. concolor* R. Br.
- #**ONATEX** Raf. Seringe Bull. Bot. 1:219. 1830, *descr.*, sect. *Carex* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833; Good Book 83. 1840, *descr.* "subgen. or subfam."=*Carex* Linn.
- ***ONKERMA** Raf. Good Book 27. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 27=*Carex* Linn.
- ***badia** Raf. l.c., *nom.* (*Carex badia* Pers.). Europe.
- ***globularis** Raf. l.c., *nom.* (*Carex globularis* Linn.). Northern Europe.
- ***oederi** Raf. l.c., *nom.* (*Carex oederi* Retz.). Europe.
- ***rigida** Raf. l.c., *nom.* (*Carex rigida* Good.). Europe=*C. concolor* R. Br.
- ***rotundata** Raf. l.c., *nom.* (*Carex rotundata* Wahlenb.). Northern Europe.
- ***sphaerocarpa** Raf. l.c., *nom.* (*Carex sphaerocarpa* Willd.). Europe.
- ***OSCLISA** Raf. Good Book 27. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 27=*Carex* Linn.
- ***acuta** Raf. l.c., *nom.* (*Carex acuta* Linn.). Temperate regions.
- ***sudeta** Raf. l.c., *nom.* (*Carex sudetica* Opiz). Europe.
- ***trinervis** Raf. l.c., *nom.* (*Carex trinervis* Degl.). France.
- #**PAPYRUS** Raf. Seringe Bull. Bot. 1:220. 1830, *descr.*, sect. *Cyperus* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 84. 1833 [*Papyrus* Willd., 1812-13]=*Cyperus* Linn.
- PHYSIGLOCHIS** Neck.=*Carex* Linn.
- ***buxbaumi** Raf. Good Book 27. 1840, *nom.*, 1913 repr. Nat. Fam. Carex. 27 (*Carex buxbaumii* Wahlenb.). Europe.
- ***dioica** Raf. l.c., *nom.* (*Carex dioica* Linn.). Boreal regions.
- ***paniculata** Raf. l.c., *nom.* (*Carex paniculata* Linn.). Boreal and temperate regions.
- ***teretiuscula** Raf. l.c., *nom.* (*Carex teretiuscula* Good.). Europe=*Carex diandra* Schrank.
- ***wormskoldi** Raf. l.c., *nom.* (*Carex wormskoldii* Drej.). Europe=*Carex scirpoidea* Michx.
- #**PLANAREX** Raf. Good Book 25. 1840, 1913 repr. Nat. Fam. Carex. 25 *descr.*, subgen. *Carex* Linn. (Type *Carex nigra* All.).
- #**PLANEURIS** Raf. Good Book 25. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 25, *descr.*, subgen. *Carex* Linn. (Type *Carex extensa* Good.).
- #**RUGUNIA** Raf. Seringe Bull. Bot. 1:219. 1830, *descr.*, sect. *Scleria* Berg., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833=*Scleria* Berg. (1765).
- SCIRPUS** Linn.
- aquatilis* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- **bicolor* Raf. Fl. Ludovic. 15. 1817, *nom. subnud.* (*Scirpus* sp. Rob. Voy. Louis. 3:334. 1807). Louisiana.
- nudus* Raf. Atl. Jour. 1:18. 1832, *descr.* sub. *S. typhinus* Raf. Virginia.
- orgyalis* Raf. Ann. Nat. Ann. Synop. 16. 1820, *descr.* New York and Pennsylvania=*S. validus* Vahl (1805).
- pauciflorus* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- typhinus* Raf. Atl. Jour. 1:18. 1832, *descr.* Pennsylvania.
- SCLERIA** Berg.
- **reticulata* Raf. Seringe Bull. Bot. 1:219. 1830, *nom.*, *sphalm.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833=*S. reticularis* Michx. Eastern North America.
- †**SCURIA** Raf. Anal. Nat. Tabl. Univ. 203. 1815, *nom.* (*Carex* sp. Linn.); Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *descr.*, subgen. *Carex* Linn.; Isis von Oken 1: Lit. Anz. 242. 1820, *descr.*, subgen. *Carex* Linn.; Fl. Tellur. 1:33. 1836 [1837], *nom.*; Good Book 24. 1840, *nom.* (*Vignea* Beauv.), 1913 repr. Nat. Fam. Carex. 24=*Carex* Linn.
- STENOPHYLLUS** Raf. Neogen. 4. 1825, *descr.*; Seringe Bull. Bot. 1:219. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833=*Bulbostylis* Kunth, 1837, non DC., 1836, *nom. conserv.* (*Stenophyllus* Raf., 1825); see Fernald, *Rhodora* 40:391. 1938.
- cespitosus* Raf. l.c., *nom.* (*Scirpus stenophyllus* Ell.). South-eastern United States=*Bulbostylis stenophyllus* (Ell.) Fernald.
- ***TEMNEMIS** Raf. Good Book 27. 1840, *descr.*, 1913 repr. Nat. Fam. Carex. 27=*Carex* Linn.
- **scouleri* Raf. l.c., *nom.* (*Carex scouleri* Torr.). North America=*C. lyngbyei* Hornem.
- #**THRYONACHIS** Raf. Seringe Bull. Bot. 1:219. 1830, *descr.*, sect. *Scirpus* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833.
- TORREYA** Raf. Jour. Phys. Chim. Hist. Nat. 89:105. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *descr.*; Good Book 61. 1840, *nom.*, *nota*, non *Torreya* Raf. (1818)=*Pycnus* Beauv. (1807)=*Cyperus* Linn.
- cespitosa* Raf. l.c., *nom.* (*Cyperus caespitosus* Eddy). Eastern North America=*Cyperus filicinus* Vahl.
- maritima* Raf. l.c., *nom.* (*Cyperus diandrus* Torr.). Eastern North America=*Cyperus diandrus* Torr.
- #**TRIODEX** Raf. Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *descr.*, subgen. *Carex* Linn.; Isis von Oken 1820, 1: Lit. Anz. 243. 1820, *descr.*, subgen. *Carex* Linn.=*Carex* Linn.
- TRIODUS** Raf. ex Jacks*. Ind. Kew. 2:1120. 1895, *sphalm.*=*praec.*
- TRIPLIMA** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *descr.*, ut gen.; Jour. Phys. Chim. Hist. Nat. 89:106. 1819, *descr.*, ut subgen. *Carex* Linn.; Isis von Oken 1820, 1: Lit. Anz. 242. 1820, *descr.*, ut subgen. *Carex* Linn.; Herb. Raf. 40. 1833, *nom.*; Good Book 24. 1840, *nom.*, 1913 repr. Nat. Fam. Carex. 24=*Carex* Linn.
- **bradburyi* Raf. Herb. Raf. 40. 1833, *nom.* Upper Missouri (Mandan country)=Dakota.
- **longibracteata* Raf. l.c., *nom.* Upper Missouri (Mandan country)=Dakota.
- **pauciflora* Raf. l.c., *nom.* (*Carex filifolia* Nutt.). Western United States=*C. filifolia* Nutt. (*Uncinia breviseta* Torr.).
- #**TRISMITEX** Raf. Good Book 83. 1840, *descr.*, subgen. *Carex* Linn.=*Carex* Linn.
- #**TRISTIMEX** Raf. Seringe Bull. Bot. 1:218. 1830, *descr.*, sect. *Carex* Linn., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833=*Carex* Linn.
- VIGNEA** Beauv.=*Carex* Linn.
- **deweyi* Raf. Good Book 26. 1840, *nom.*, 1913, repr. Nat. Fam. Carex. 27 (*Carex deweyana* Schwein.). Eastern North America.
- **disperma* Raf. op. cit. 27, *nom.* (*Carex disperma* Dewey). Eastern North America=*Carex tenella* Schkuhr, not Thunb. (1797).
- **exilis* Raf. l.c., *nom.* (*Carex exilis* Dewey). Eastern North America.

VIGNEA (continued).

- **floridana* Raf. l.c., nom. (*Carex floridana* Schwein.). South-eastern United States.
 **hispanica* Raf. l.c., nom (*Carex hispanica* Raf. l.c., nom.). Spain.
 **muhlenbergii* Raf. l.c., nom. (*Carex muhlenbergii* Schkuhr.) Eastern North America.
 **setacea* Raf. l.c., nom. (*Carex setacea* Dewey). Eastern North America=*Carex vulpinoidea* Michx.
 **siccata* Raf. l.c., nom. (*Carex siccata* Dewey). Eastern North America.
 **straminea* Raf. l.c., nom. (*Carex straminea* Willd.). Eastern North America.

PALMAE

ARECA Linn.

- **floridana* Raf. New Fl. N. Am. 3:95. 1836 [1838], nom. (*Corypha palma* Bartr. Trav. 6, 29. 1791, nom.) Florida=*Sabal palmetto* (Walt.) Lodd.

*CHAMEROPS Raf. Fl. Ludovic. 159. 1817, nom.=Chamaerops Linn.

- **louisiana* Raf. l.c., nom., nota (Ind. Kew. 1:505. 1893, *Chamaerops louisiana* Raf.). Louisiana.

CORYPHA Linn.

- **obliqua* Raf. New Fl. N. Am. 3:95. 1836 [1838], nom. Florida.

*ELATEUM Raf. Anal. Nat. Tabl. Univ. 202. 1815, nom. nov. *Elate* Linn.=Phoenix Linn.

SABAL Adans.

- adiantum* Raf. Fl. Ludovic. 17. 1817, descr. (*Latanier* Rob. Voy. Louis. 3:338. 1807). Louisiana=*Sabal minor* (Jacq.) Pers.

ZELONOPS Raf. Fl. Tellur. 2:102. 1836 [1837], descr.=Phoenix Linn.

- pusilla* Raf. l.c., descr. (*Phoenix pusilla* Lour. 1790 [non *Phoenix pusilla* Gaertn. Fruct. 1:24. t. 9. 1788]; *P. farinifera* Roxb. Pl. Coromandel 1:54. t. 74. 1795). Indo-China, India, p.p.=Phoenix loureiri Kunth (*P. roebelinii* O'Brien), p.p.=Phoenix farinifera Roxb.

ARACEAE

ACORUS Linn.

- americanus* Raf. New Fl. N. Am. 1:57. 1836, descr.; Aut. Bot. 196. 1840, nom. Canada to Virginia and Missouri=*A. calamus* Linn.

- **angustatus* Raf. Aut. Bot. 196. 1840, descr. Alabama=seq. *calamus* Linn.

- var. *americanus* Raf. Med. Fl. 1:25. f. 1. 1828, iter. Man. Med. Bot. 25. f. 1. 1841. North America=*Acorus americanus* Raf.=*A. calamus* Linn.

- var. *europaeus* Raf. op. cit. 26., descr. Europe=*A. calamus* Linn.

- **europaeus* Raf. New Fl. N. Am. 1:57. 1836 (*Acorus calamus* Linn var. *europaeus* Raf.). Europe=*A. calamus* Linn.

- flexuosus* Raf. Atl. Jour. 1:178. 1833, descr.; Herb. Raf. 25. 1833, descr.; New Fl. N. Am. 1:57. 1836, descr.; Aut. Bot. 197. 1840, descr. Arkansas, Texas=*A. calamus* Linn.
floridanus Raf. New Fl. N. Am. 1:57. 1836, descr.; Aut. Bot. 197. 1840, descr. (*Acorus calamus* sensu Ell.). Carolina, Florida=*A. calamus* Linn.

- verus* Raf. Med. Fl. 1:26. 1828, nom., nota, iter. Man. Med. Bot. 26. 1841. India=*A. calamus* Linn.

*ALOCASIA Raf. Fl. Tellur. 3:64. 1836 [1837], descr., non Neck. (1790)³=Arisaema Mart. (1831).

- lobata* Raf. l.c., nom. Eastern North America=*Arisaema triphyllum* (Linn.) Schott.

- **pedata* Raf. l.c., nom. Eastern North America=*Arisaema triphyllum* (Linn.) Schott.

- **triphylla* Raf. l.c., nom. Eastern North America=*Arisaema triphyllum* (Linn.) Schott.

- virginica* Raf. l.c., nom. Eastern North America=*Arisaema triphyllum* (Linn.) Schott.

AMBROSINIA Linn.

- **alismoides* Nutt. ex Raf. Aut. Bot. 188. 1840, nom., sub *Rhizakenia ovata* Raf., in syn.=*Limnobia spongia* Steud. (Hydrocharitaceae).

ARISARUM (Tourn.) Targ.-Toz.; Raf. Anal. Nat. Tabl. Univ. 202. 1815, nom.; Fl. Tellur. 3:62. 1836 [1837], descr.

- italicum* Raf. Fl. Tellur. 3:63. 1836 [1837], nom. (*Arum italicum* Mill.). Europe=*Arum italicum* Mill. var. *typicum* Engl.

- maculatum* Raf. l.c., nom. (*Arum maculatum* Linn.). Europe=*Arum maculatum* Linn. var. *vulgare* (Lam.) Engl.

- ovatum* Raf. l.c., nom. (*Arum ovatum* Linn.). India=*Lagenandra ovata* (Linn.) Thwaites.

- pictum* Raf. l.c., nom. (*Arum pictum* Linn. f.). Europe=*Arum pictum* Linn. f.

- **serpentinum* Raf. l.c., nom. nov. *Arum arisarum* Linn. Europe=*Arisarum vulgare* Targ.-Toz.

- serpentinum* Raf. ex Jacks*. Ind. Kew. 1:186. 1893, *sphalm.*=*praec.*

AROSMA Raf. Fl. Tellur. 3:66. 1836 [1837], descr.=Philodendron Schott (1829), nom. conserv. (*Baursea Hoffmegg*, 1824).

- acutifolia* Raf. l.c., descr. (*Caladium grandifolium* Sims Bot. Mag. 53: t. 2643. 1826, non Willd.; *Caladium simsii* Hook.). Guiana=*Philodendron simsii* (Hook.) Kunth.

- obtusifolia* Raf. l.c., descr. (*Caladium fragrans* [fragrantissimum] Hook. Bot. Mag. 61: t. 3314. 1834). Guiana=*Philodendron fragrantissimum* (Hook.) Kunth.

CALADIUM Vent.

- **fragrans* Raf. Fl. Tellur. 3:66. 1836 [1837], nom. in syn., *sphalm.* (*C. fragrantissimum* Hook.). Guiana=*Philodendron fragrantissimum* (Hook.) Kunth.

*CALADIUS Raf. New Fl. N. Am. 1:88. 1836, nom. sub *Peltandra alba* Raf.=Caladium Vent. (1800).

*CALLADIUM Raf. Am. Monthly Mag. Crit. Rev. 2:267. 1818, nom.; Jour. Phys. Chim. Hist. Nat. 89:103. 1819, nom.=Caladium Vent. (1800).

- **sagittaeifolium* Raf. Jour. Phys. Chim. Hist. Nat. 89:103. 1819, nom.=Caladium *sagittaeifolium* Vent.=*Xanthosoma sagittifolium* (Linn.) Schott. Tropical America.

- **virginicum* Raf. l.c., nom. [*Arum virginicum* Linn.?].

CALLAION Raf. New Fl. N. Am. 2:90. 1836 [1837], nom. nov. *provis. Calla* Linn. (*Provenzalia* Raf.)=*Calla* Linn.

- bispatha* Raf. l.c., nom. alt. *Provenzalia bispatha* Raf. Oregon=*Calla palustris* Linn.

- brevis* Raf. l.c., nom. alt. *Provenzalia brevis* Raf. Alleghany Mountains=*Calla palustris* Linn.

- heterophylla* Raf. l.c., nom. alt. *Provenzalia heterophylla* Raf. Hudson Bay and Siberia=*Calla palustris* Linn.

- palustris* Raf. l.c., nom. alt. *Provenzalia palustris* Raf. Europe, North America=*Calla palustris* Linn.

CALLARIA Raf. Am. Monthly Mag. Crit. Rev. 2:267. 1818, nom. nov. *provis. Calla* Linn.*COLLA Raf. Fl. Tellur. 4:8. 1836 [1838], nom. sub *Otosma* Raf., *sphalm.*=*Calla* Linn.

COLOCASIA Schott.

- **cucullata* Raf. Fl. Tellur. 3:65. 1836 [1837], nom. [*Arum cucullatum* Lour.]. China=*Alocasia cucullata* (Lour.) Schott=? *Colocasia esculenta* (Linn.) Schott; see Merrill, Trans. Am. Philos. Soc. II. 24(2):97. 1934.

- peregrina* Raf. l.c., nom. [*Arum peregrinum* Linn.?].

- vulgaris* Raf. l.c., nom. (*Arum colocasia* Linn.). Indo-Malaysia=*Colocasia esculenta* (Linn.) Schott.

DESMESIA Raf. Fl. Tellur. 3:63. 1836 [1837], descr.=Typhonium Schott (1829).

- orixensis* Raf. l.c., descr. (*Arum orixense* Andr. Bot. Rep. 5: t. 356. 1804; Ker-Gawl. Bot. Reg. 6: t. 450. 1820). India=*Typhonium trilobatum* (Linn.) Schott.

- venosa* Raf. l.c., descr. (*Arum venosum* Ait.; Lindl. Bot. Reg. 12: t. 1017. 1826). "Brazil" [India]=*Sauromatum venosum* (Ait.) Schott (*S. guttatum* (Wall.) Schott).

DRACONTIUM Linn.

- **camchatense* Raf. Fl. Tellur. 4:13. 1836 [1838], nom.=*D. camchatcense* Linn.=*Lysichiton camtchatcense* (Linn.) Schott. Northeastern Asia.

DRACUNCULUS Adans.

- cannaeifolius* Raf. Fl. Tellur. 3:65. 1836 [1837], nom. (*Arum cannaefolium* Linn. f.). Guiana=? *Philodendron* sp.

- **crassicaulis* Raf. l.c., nom. Hab.?

- divaricatus* Raf. l.c., nom. (*Arum divaricatum* Linn.). India=*Typhonium divaricatum* (Linn.) Decne.

- **polyphyllus* Raf. l.c., nom. (*Arum dracunculus* Linn.). Mediterranean region=*Dracunculus vulgaris* Schott (1832).

- spadiceus* Raf. l.c., nom. (*Arum dracontium* Linn.). Eastern North America=*Arisaema dracontium* (Linn.) Schott.

³ Two of the following binomials are entered in Index Kewensis 1:85. 1893 under *Alocasia* Neck.

- **tenellus* Raf. l.c., *nom. Hab.*?
trilobatus Raf. l.c., *nom. (Arum trilobatum* Linn.). India=
Typhonium trilobatum (Linn.) Schott.
- EUTEREA** Raf. Fl. Tellur. 4:12. 1836 [1838], *descr.*=*Dracontium* Linn.
nigricans Raf. l.c., *descr. (Dracontium polyphyllum* Linn.).
 Guiana.
- HOMAIIDA** Raf. Fl. Tellur. 3:63. 1836 [1837], *descr. (non*
Homaid Adans. 1763)=*Arisarum* (Tourn.) Targ.-Toz.
 (1810).
proboscidea Raf. ex Jacks*. Ind. Kew. 1:1170. 1893 (*Aris-*
arum proboscideum Savi). Italy.
- KUNDA** Raf. Fl. Tellur. 2:82. 1836 [1837], *descr.*=*Amor-*
phophallus Blume (1835), *nom. conserv. (Candarum* Reichb.,
 1832).
verrucosa Raf. l.c., *descr. (Arum campanulatum* Roxb. Pl.
 Coromand. 3:89. t. 272. 1819; Hook. Bot. Mag. 55: t. 2812.
 1828; *Arum ceylanicum polyphyllum* Commel. Hort. Med.
 Amst. 1:101. t. 53. 1697; *Tacca phallifera* Rumph. Herb.
 Amb. 5:326. t. 113 [f. 2]. 1747; *Schena Rheede* Hort.
 Malabar. 11:35. t. 19. 1692). India, Ceylon, Moluccas=
Amorphophallus campanulatus (Roxb.) Blume.
- ***LECONTEA** Raf. New Fl. N. Am. 1:85, 86. 1836, *nom.*; Fl.
 Tellur. 3:65. 1836 [1837], *nom. sub Peltandra* Raf.=
Lecontia Cooper ex Torr. (1826)=*Peltandra* Raf. (1819).
- #**LEUCOSPATA** Raf. New Fl. N. Am. 1:86. 1836, *descr.*
subgen. Peltandra Raf.
- MEGOTIGEA** Raf. Fl. Tellur. 3:64. 1836 [1837], *descr.*=*Heli-*
codiceros Schott (1853), *nom. conserv. (Megotigea* Raf.,
 1837).
crinita Raf. l.c., *descr. (Arum crinitum* Ait.; Lindl. Bot. Reg.
 10: t. 831. 1824; *A. muscivorum* Linn.). Spain, Minorca=
Helicodicerus muscivorus (Linn.) Engl.
- #**NEIENSHENA** Raf. Fl. Tellur. 3:65. 1836 [1837], *descr.*,
subgen. Dracunculus Adans.
- ORONTIUM** Linn.
 **angustifolium* Raf. Aut. Bot. 197. 1840, *descr.* Maryland,
 Virginia, Carolina=*O. aquaticum* Linn.
aquaticum Linn. Eastern North America.
 var. *glaucum* Raf. l.c., *nom.*
latifolium Raf. l.c., *nom.*
obliquatum Raf. l.c., *nom.*
- **ellipticum* Raf. l.c., *nom. alt. O. aquaticum* Linn. Eastern
 North America=*praec.*
- **vaginatum* Raf. l.c., *descr.* Western Kentucky, Arkansas.
- OTOSMA** Raf. New Fl. N. Am. 2:90. 1836 [1837], *nom.*; Fl.
 Tellur. 4:8. 1836 [1838], *descr.*=*Zantedeschia* Spreng.
 (1826), *nom. conserv. (Aroides* Heist., 1763; *Richardia*
 Kunth, 1818).
- ethiopica* Raf. Fl. Tellur. l.c., *descr. (Calla aethiopica* Linn.).
 Africa=*Zantedeschia aethiopica* (Linn.) Spreng.
- †**PELTANDRA** Raf. Fl. Ludovic. 167. 1817, *nom.*; Jour. Phys.
 Chim. Hist. Nat. 89:103. 1819, *descr.*; Isis von Oken 1820,
 1: Lit. Anz. 241. 1820, *descr.*; Med. Fl. 2:251. 1830, *nom.*;
 New Fl. N. Am. 1:6, *nom.*, 86. 1836, *descr. (Lecontia*
 Cooper ex Torr. 1826, *Rensselaeria* Beck, 1833); Fl. Tellur.
 3:65. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*
- alba* Raf. New Fl. N. Am. 1:88. 1836, *descr. (Calla sagit-*
tifolia Michx.; *Caladium *glaucum* Ell. Sketch 2:631. 1824).
 Carolina=*Peltandra* **glaucum* Feay ex Wood, Class-Book,
 ed. 1861, 669. 1861=*Peltandra sagittifolia* (Michx.)
 Morong; see Fernald, *Rhodora* 50:59. 1948.
- angustifolia* Raf. op. cit. 89, *descr.*; Fl. Tellur. 3:65. 1836
 [1837], *nom. (Calla virginica* Michx., "varietat foliis an-
 gusto-oblongis" Michx.). Virginia=*Peltandra virginica*
 (Linn.) Schott & Endl., f. *angustifolia* (Raf.) Blake,
Rhodora 14:106. 1914.
- canadensis* Raf. New Fl. N. Am. 1:87. 1836, *descr.* Canada
 to Pennsylvania=*Peltandra virginica* (Linn.) Schott &
 Endl.
- hastata* Raf. op. cit. 88, *descr. (Arum virginicum* sensu Ell.);
 Fl. Tellur. 3:65. 1836 [1837], *nom.* Carolina to Florida=
Peltandra virginica (Linn.) Schott & Endl. ? f. *hastifolia*
 Blake, op. cit. 105.
- heterophylla* Raf. l.c., *descr., nom.*; Aut. Bot. 69. 1840,
nom. New Jersey, Pennsylvania=*Peltandra virginica*
 (Linn.) Schott & Endl., f. *heterophylla* (Raf.) Blake.
- latifolia* Raf. New Fl. N. Am. 1:87. 1836, *descr.*; Fl. Tellur.
 3:65. 1836 [1837], *nom.*; Aut. Bot. 69. 1840, *nom.* New
 Jersey, Delaware=*Peltandra virginica* Schott & Endl.,
 f. *latifolia* (Raf.) Blake, op. cit. 104.
- **sagittata* Raf. Fl. Tellur. 3:65. 1836 [1837], *nom.* Ut
 videtur=seq.
- sagittaeifolia* Raf. ex Jacks*. Ind. Kew. 2:171. 1894 [*Calla*
sagittifolia Michx.; *Arum sagittifolium* Pursh; *Caladium*
sagittifolium Willd.]. Georgia, Florida=*Peltandra sagit-*
tifolia (Michx.) Morong, Mem. Torr. Bot. Club 5:102. 1894.
- undulata* Raf. Jour. Phys. Chim. Hist. Nat. 89:103. 1819,
descr., iter. Isis von Oken 1820, 1: Lit. Anz. 241. 1820;
 New Fl. N. Am. 1:87. 1836, *descr.*; Aut. Bot. 69. 1840,
nom., nota. New York, Alleghany Mountains=*Peltandra*
virginica (Linn.) Schott & Endl.
- †*virginica* Raf. ex Steud. Nomencl. 602. 1821; Kunth, Enum.
 3:43. 1841 (*Arum virginicum* Linn.). Eastern North
 America=*Peltandra virginica* (Linn.) Schott & Endl.
- walteri* Raf. New Fl. N. Am. 1:88. 1836, *descr.*; Fl. Tellur.
 3:65. 1836 [1837], *nom. (Arum sagittifolium* sensu Walt.,
*Arum *walteri* Ell. Sketch 2:631. 1824, *descr.*). Carolina=
Peltandra virginica (Linn.) Schott & Endl.; see Fernald,
Rhodora 50:57. 1948.
- PLEUROSPA** Raf. Fl. Tellur. 4:8. 1836 [1838], *descr.*=*Mont-*
richardia Crueg. (1854).
cordifolia Raf. l.c., *descr.* Madagascar.
reticulata Raf. l.c., *descr. (Arum arborescens* Linn.). South
 America=*Montrichardia arborescens* (Linn.) Crueg.
- PODOSPADIX** Raf. Fl. Tellur. 4:14. 1836 [1838], *descr.*; op.
 cit. 124, *nom., nota*=*Anthurium* Schott (1829).
angustifolia Raf. op. cit. 124, *descr. (Pothos crassinervius*
 Jacq.). Venezuela=*Anthurium crassinervium* (Jacq.)
 Schott.
- **harrisii* Raf. l.c., *descr. (Pothos harrisii* Grah.; Hook. Exot.
 Fl. 3: t. 211. 1827). Brazil=*Anthurium harrisii* (Grah.)
 Engl.
- harrisii* Raf. ex Jacks*. Ind. Kew. 2:580. 1894=*praec.*
- **humboldti* Raf. Fl. Tellur. l.c., *nom. (Pothos crassinervius*
 sensu H.B.K. Nov. Gen. Sp. Pl. 1:63. 1815). South
 America.
humboldti Raf. ex Jacks*. Ind. Kew. 2:580. 1894=*praec.*
- microphylla* Raf. Fl. Tellur. l.c., *descr. (Pothos microphyllus*
 Hook. Bot. Mag. 56: t. 2953. 1829). Brazil=*Anthurium*
microphyllum (Hook.) G. Don.
- reticulata* Raf. op. cit. 14, *descr. (Pothos crassinervius* Jacq.
 l.c. Pl. Rar. 3: t. 610. 1786-93). Venezuela=*Anthurium*
crassinervium (Jacq.) Schott.
- **teres* Raf. op. cit. 124, *descr. (Pothos crassinervius* sensu
 Hook. Bot. Mag. 57: t. 2987. 1830). British Guiana=
Anthurium hookeri Kunth.
- PROVENZALIA** Adans. (1763); Raf. New Fl. N. Am. 2:90.
 1836 [1837], *nom., nota*; Fl. Tellur. 3:67. 1836 [1837],
nom., nota=*Calla* Linn.
- bispatha* Raf. l.c., *descr., nom.* Oregon=*Calla palustris*
 Linn.
- brevis* Raf. New Fl. l.c., *descr.* Alleghany Mountains, Mount
 Pocono=*Calla palustris* Linn.
- heterophylla* Raf. l.c., *descr.* Hudson Bay and Siberia=*Calla*
palustris Linn.
- palustris* Raf. l.c., *descr. [Calla palustris* Linn.]. Europe,
 North America=*Calla palustris* Linn.
 var. *parvifolia* Raf. l.c., *descr.*
- #**RENSELARIA** Raf. New Fl. N. Am. 1:85, 86. 1836, *nom.*,
subgen. Peltandra Raf.; Fl. Tellur. 3:65. 1836 [1837], *nom.*
 =*Rensselaeria* Beck (1833)=*Peltandra* Raf. (1819).
- **virginica* Raf. New Fl. N. Am. 87, *nom.*=*Rensselaeria*
virginica Beck=*Peltandra virginica* (Linn.) Kunth. Eastern
 North America.
- #**RHOMPHALIS** Raf. Fl. Tellur. 3:64. 1836 [1837], *nom.*,
subgen. Alocasia Neck.=*Arisaema* Mart. (1831).
- SEGUINUM** Raf. Fl. Tellur. 3:66. 1836 [1837], *descr.*=*Dieffen-*
bachia Schott (1829).
maculatum Raf. op. cit. 67, *descr. (Arum seguinum* Linn.;
Caladium seguinum Willd.). Jamaica=*Dieffenbachia*
seguine (Jacq.) Schott.
- SPATHYEMA** Raf. Med. Repos. II. 5:352. 1808, *nom. (Dracon-*
tium foetidum Linn.); Jour. Bot. (Paris) 2:171. 1809,
nom. (Dracontium foetidum Linn.); Anal. Nat. Tabl. Univ.
 203. 1815, *nom.*; Am. Monthly Mag. Crit. Rev. 2:267.
 1818, *nom., nota*; op. cit. 4:191. 1819, *nom., nota* (*Symplo-*
carpus Salisb.); Am. Jour. Sci. 1:78. 1818, *nom., nota*;
 Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom., nota*
 (*Symplocarpus* Salisb.); Fl. Tellur. 4:13. 1836 [1838],
descr. (Ictodes Bigel., 1818; *Symplocarpus* Salisb.)=*Sym-*
plocarpus Salisb. (1818), *nom. conserv. (Spathyema* Raf.,
 1808).

SPATHYEMA (continued).

- angusta* Raf. Fl. Tellur. 4:13. 1836 [1838], *descr.* Eastern North America=*Symplocarpus foetidus* (Linn.) Nutt.
foetida Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Dracontium foetidum* Linn.); Jour. Bot. (Paris) 2:171. 1809, *nom.*; A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.*; Am. Jour. Sci. 1:78. 1818, *nom.* (*foetida*) (*Pothos foetidus* Ait.); Med. Fl. 2:230. 1830, *nom.* (*Ictodes foetida* Bigel.). Eastern North America=*Symplocarpus foetidus* (Linn.) Nutt.
lanceolata Raf. Fl. Tellur. 4:13. 1836 [1838], *descr.* (*Dracontium camtschatcense* Linn.). Siberia=*Lysichiton camtschatcense* (Linn.) Schott.
latifolia Raf. l.c., *descr.*, *nom. nov.* *Dracontium foetidum* Linn. Eastern North America=*Symplocarpus foetidus* (Linn.) Nutt.
†**SPIROSPATHA** Raf. New Fl. N. Am. 2:90. 1836 [1837], *nom.* sub *Provenzalina* Adans. (*Calla occulta* Lour.); Fl. Tellur. 4:8. 1836 [1838], *descr.*=*Homalomena* Schott (1832).
occulta Raf. Fl. Tellur. l.c., *descr.* (*Calla occulta* Lour.). Indo-China (Annam)=*Homalomena* sp.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):97. 1935.
#**STEIROPTILUS** Raf. Fl. Tellur. 3:64. 1836 [1837], *nom. nov. provis.*, "gen. vel subgen." *Desmesia* Raf. (Type *Desmesia orixensis* Raf.)=*Typhonium* Schott (1829).
STREPSANTHERA Raf. Fl. Tellur. 4:13. 1836 [1838], *descr.*=*Anthurium* Schott (1829).
macrophylla Raf. l.c., *descr.* (*Pothos macrophylla* sensu Hook. Bot. Mag. 55: t. 2801. 1828; *P. grandifolia* Jacq. Ic. Pl. Rar. 3: t. 610. 1786-93; *Dracontium amplifolius* Plum. Descr. 48. t. 51. f. 1. t. 63. 1693). West Indies=*Anthurium grandifolium* (Jacq.) Kunth.
TAPANAVA Adans.; Raf. Fl. Tellur. 4:14. 1836 [1837], *descr.*=*Pothos* Linn.
chinensis Raf. l.c., *descr.* (*Pothos scandens* sensu Lindl. Bot. Reg. 16: t. 1337. 1830, non Linn.). China=*Pothos chinensis* (Raf.) Merr. Jour. Arnold Arb. 29:210. 1948 (*P. see-manni* Schott, 1857).
indica Raf. l.c., *descr.* (*Pothos scandens* Linn.). India, Ceylon.
TELIPODUS Raf. Fl. Tellur. 3:66. 1836 [1837], *descr.*=*Philodendron* Schott (1829), *nom. conserv.* (*Boursea Hoffmigg.*, 1824).
grandifolius Raf. l.c., *descr.* (*Arum grandifolium* Jacq. Hort. Schoenbr. 2:32. t. 189. 1797; *Caladium grandifolium* sensu Hook. Bot. Mag. 61: t. 3345. 1834). Guiana=*Philodendron grandifolium* (Jacq.) Schott, et quoad Bot. Mag. t. 3345, *P. simsii* Kunth.

LEMNACEAE

- HEMMA** Raf. ex Pfitzer, Nomencl. 1:1606. 1875, *nom.*, *sphalm.*=*seq.*
LEMNA Linn.
dimidiata Raf. Am. Monthly Mag. Crit. Rev. 2:43. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.* Long Island=*Riccia natans* Lim. (*Ricciocarpus natans* Corda).
minuta Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States. Prob.=*L. perpusilla* Torr.

RESTIONACEAE

- BALOSKION** Raf. Fl. Tellur. 4:32. 1836 [1838], *descr.*=*Restio* Linn.
dichotomum Raf. l.c., *descr.* (*Restio tetraphyllus* Labill.). Australia.
***CHONDROPETALON** Raf. Fl. Tellur. 4:33. 1836 [1838], *descr.*=*seq.*
tectorum Raf. l.c., *nom.* (*Restio tectorum* Linn. f.). South Africa=*Dovea tectorum* (Linn. f.) Mast.
CHONDROPETALUM Rottb.=*Elegia* Linn.
tectorum Raf. ex Jacks*. Ind. Kew. 1:522. 1893. South Africa=*Dovea tectorum* (Linn. f.) Mast.
LEIENA Raf. Fl. Tellur. 4:33. 1836 [1838], *descr.* (*Restio* spp. 2-andris, 2-stylis)=*Restio* Linn.

XYRIDACEAE

- JUPICA** Raf. Fl. Tellur. 1:16. 1836 [1837], *nom.*; op. cit. 2:15. 1836 [1837], *descr.*=*Xyris* Linn.
**albiflora* Raf. Aut. Bot. 190. 1840, *nom. alt.* *Xuris* [*Xyris*] *albiflora* Raf. (*Xyris pallescens* Small).
caerulea Raf. ex Jacks*. Ind. Kew. 1:1261. 1893=seq.

- **caerulea* Raf. Fl. Tellur. 2:15. 1836 [1837], *descr.* (*Xyris americana* Aubl.); Aut. Bot. 190. 1840, *nom.* Tropical America.
†**RAMOTHA** Raf. Fl. Tellur. 1:16. 1836 [1837], *nom.*; op. cit. 2:15. 1836 [1837], *descr.*; Aut. Bot. 189. 1840, *nom.*=*Xyris* Linn.
africana Raf. Fl. Tellur. 2:16. 1836 [1837], *descr.* (*Xyris indica* auct. Afr.). Africa.
floridana Raf. l.c., *descr.* (*Xyris indica* sensu Pursh). Florida=? *Xyris platylepis* Chapm.
operculata Raf. ex Jacks*. Ind. Kew. 2:681. 1895 (*Xyris operculata* Labill.). Australia.
pubescens Raf. Fl. Tellur. l.c., *descr.* (*Xyris pubescens* Poir.). West Indies.
vera Raf. l.c., *descr.* (*Xyris indica* Linn.). India.
SYNOLIGA Raf. Fl. Tellur. 2:15. 1836 [1837], *descr.*; Aut. Bot. 189. 1840, *nom.* sub *Xuris* Raf.=*Xyris* Linn.
pauciflora Raf. ex Jacks*. Ind. Kew. 2:1025. 1893 (*Xyris pauciflora* Willd.). Indo-Malaysia.
subulata Raf. ex Jacks*. l.c. (*Xyris subulata* Ruiz & Pavon). Peru.
***XIRIS** Raf. Jour. Bot. (Paris) 2:173. 1809, *nom.*, *sphalm.*=*Xyris* Linn.
**tenuis* Raf. l.c., *nom.* Eastern United States=*Xyris torta* J. E. Sm.
XURIS Adans.; Raf. Fl. Tellur. 2:14. 1836 [1837], *descr.*; Aut. Bot. 189. 1840, *nom.*, *nota*=*Xyris* Linn.
**albiflora* Raf. Aut. Bot. 190. 1840, *descr.* (*Xyris pallescens* Small). Florida; see Fernald, *Rhodora* 46:4. 1944.
**bracteosa* Raf. Fl. Tellur. 2:14. 1836 [1837], *nom.*, *sphalm.*=*Xyris bracteata* R. Br. Australia.
**caroliniana* Raf. Aut. Bot. 189. 1840, *descr.* (*Xyris jupicai* sensu Michx.; *X. anceps* Pers.; *X. indica* auct. Am.). New Jersey to Alabama and Kentucky=*Xyris caroliniana* Walt.
**filifolia* Raf. Fl. Tellur. 2:14. 1836 [1837], *nom.* Hab.?
fistulosa Raf. l.c., *nom.*, Aut. Bot. 190. 1840, *descr.* (*Xyris juncea* Baldw. ex Ell., non R. Br.). Florida to Louisiana=*Xyris baldwiniana* Schult. (1822).
**flexuosa* Raf. Aut. Bot. 189. 1840, *descr.* (*Xyris flexuosa* Muhl.; *Xyris indica* sensu Nutt.). New Jersey to Carolina=*Xyris flexuosa* Muhl.
**obovata* Raf. Fl. Tellur. 2:14. 1836 [1837], *nom.* Long Island, New Jersey, Chesapeake Bay.
**retusa* Raf. l.c., *nom.*; Aut. Bot. 190. 1840, *descr.* Kentucky to Alabama=*Xyris torta* J. E. Sm.
**spiralis* Raf. Aut. Bot. l.c., *descr.* Southern New Jersey=prae.
XYRIS Linn.
**cylindrica* Baldw. ex. Raf. Aut. Bot. 190. 1840, *nom.* in syn. sub. *Xuris albiflora* Raf.=*X. albiflora* Raf.
**flexuosa* Raf. Herb. Raf. 70. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay=*Xyris flexuosa* Muhl.
**media* Raf. Herb. Raf. 70. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
**obovata* Raf. l.c., *nom.* Long Island, New Jersey, Chesapeake Bay.
**retusa* Raf. op. cit. 63, *nom.*, 64, *descr.* Western Kentucky and Missouri=*X. torta* J. E. Sm.
tenuis Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* (*Xiris*). Central Atlantic United States=prae.

ERIOCAULONACEAE

- ERIOCAULON** Linn.
**brevifolium* Raf. Herb. Raf. 70. 1833, *nom.*; Aut. Bot. 189. 1840, *descr.* New Jersey and Texas. Ex *descr.*=*Syngonanthus flavidulus* (Michx.) Ruhl.
**callosum* Raf. Aut. Bot. 188. 1840, *descr.* Alabama.
filiforme Raf. Atl. Jour. 1:121. 1832, *descr.* New Jersey=? *E. compressum* Lam.
flavidulum Michx. var. *cinereum* Raf. Aut. Bot. 189. 1840, *nom.* Alabama, Florida=*Syngonanthus flavidulus* (Michx.) Ruhl.
**longifolium* Raf. op. cit. 188., *descr.* Southern New Jersey=*E. decangulare* Linn.
pellucidum Michx. var. *pumilum* Raf. op. cit. 189, *descr.* Alleghany Mountains=seq.
pumilum Raf. Atl. Jour. 1:121. 1832, *descr.* Catskill Mountains, New York=*E. septangulare* With.
spathaceum Raf. l.c., *descr.* Florida=*Syngonanthus flavidulus* (Michx.) Ruhl.

*striatum Raf. Herb. Raf. 70. 1833, *nom.* Long Island to Chesapeake Bay.

BROMELIACEAE

- *CARATAS Raf. Anal. Nat. Tabl. Univ. 198. 1815, *nom.* [*Karatas* Plum.] = *Karatas* Mill. (1754).
 CODONANTHES Raf. ex Jacks*. Ind. Kew. 1:577. 1893, *sphalm.* = *Conanthes* Raf. (1838) = *Pitcairnia* L'Hérit. (1789), *nom. conserv.* (*Hepetis* Sw., 1788).
 albiflos Raf. ex Jacks*. l.c. = *Pitcairnia* albiflos Herb. Brazil.
 *CONANTHES Raf. Fl. Tellur. 4:24. 1836 [1838], *descr.* = *Pitcairnia* L'Hérit. (1789), *nom. conserv.* (*Hepetis* Sw., 1788).
 *albiflos Raf. l.c., *descr.* (*Pitcairnia* albiflos Herb. ex Hook. Bot. Mag. 53: t. 2641. 1826). Brazil.
 DENDROPOGON Raf. Neogen. 3. 1825, *descr.*; Fl. Tellur. 4:25. 1836 [1838], *descr.* = *Tillandsia* Linn.
 †usneoides Raf. Med. Fl. 2:216. 1830, *nom.* (*Tillandsia usneoides* Linn.); Fl. Tellur. 4:25. 1836 [1838], *nom.*; Aut. Bot. 198. 1840, *nom.* Carolina to Louisiana = *Tillandsia usneoides* Linn.
 ERIOSTAX Raf. Fl. Tellur. 4:25. 1836 [1838], *descr.* = *Aechmea* Ruiz & Pavon (1794), *nom. conserv.* (*Hoiriri* Adans., 1763).
 glauca Raf. l.c., *descr.* (*Bromelia melantha* Ker-Gawl. Bot. Reg. 9: t. 766. 1824). West Indies = *Aechmea bromeliifolia* (Rudge) Baker.
 EUCALLIAS Raf. Fl. Tellur. 4:25. 1836 [1838], *descr.* = *Billbergia* Thunb. (1823).
 versicolor Raf. l.c., *descr.* (*Bromelia zebrina* Herb. Bot. Mag. 53: t. 2686. 1826). Brazil = *Billbergia zebrina* (Herb.) Lindl.
 HEXALEPIS Raf. Fl. Tellur. 4:24. 1836 [1838], *descr.* = *Vriesea* Lindl. (1843), *nom. conserv.* (*Hexalepis* Raf., 1838).
 psittacina Raf. l.c., *descr.* (*Tillandsia psittacina* Hook. Bot. Mag. 55: t. 2841. 1828). Brazil = *Vriesea psittacina* (Lindl.) Mez.
 *KARAGUATA Raf. Aut. Bot. 198. 1840, *nom.* sub *Tillandsia cinerea* Raf. = *Tillandsia* Linn.
 *cinerea Raf. l.c., *nom. alt.* *Tillandsia cinerea* Raf. (*Tillandsia recurvata* Linn.). Florida.
 *dilatata Raf. op. cit. 199, *nom. nov. provis.* *Tillandsia utriculata* Linn., Florida.
 TILLANDSIA Linn.
 *cinerea Raf. Aut. Bot. 198. 1840, *descr.* (*T. recurvata* sensu Michx.). Florida = *T. recurvata* Linn. (*Diaphoranthema recurvata* Beer).
 *convoluta Raf. op. cit. 199, *descr.* Brazil.
 *dilatata Raf. l.c., *nom. nov. provis.* (*Tillandsia utriculata* Linn.; *T. polystachya* Muhl.). Southeastern United States = *Tillandsia utriculata* Linn.

COMMELINACEAE

- ALLOSPERMA Raf. Fl. Tellur. 4:122. 1836 [1838], *descr.* = *Commelina* Linn.
 tuberosa Raf. l.c., *descr.* (*Commelina tuberosa* Linn.). Mexico.
 †ALLOTRIA Raf. Med. Fl. 2:212. 1830, *nom.*; Fl. Tellur. 3:70. 1836 [1837], *descr.* = *Commelina* Linn.
 scabra Raf. Fl. Tellur. l.c., *descr.* (*Commelina virginica* Linn.). Virginia, Carolina.
 ANANTHOPUS Raf. Fl. Ludovic. 20. 1817, *descr.*; op. cit. 148, *nom., nota*; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom., nota* (= *Commelina* Linn. fide Raf. l.c.); Med. Fl. 2:212. 1830, *nom.*; Fl. Tellur. 3:69. 1836 [1837], *descr.* = *Commelina* Linn.
 clandestinus Raf. Fl. Ludovic. op. cit. 10, *nom.*, 21, *descr.* 1817 (*Ophrys première* Rob. Voy. Louis. 3:351. 1807); Fl. Tellur. 3:69. 1836 [1837], *descr.* Louisiana.
 cordatus Raf. Fl. Ludovic. 22. 1817, *descr.* (*Ophrys seconde* Rob. Voy. Louis. 3:352. 1807); Fl. Tellur. l.c., *descr.* Louisiana.
 undulatus Raf. Fl. Tellur. 3:70. 1836 [1837], *descr.* Alabama.
 APLOLEIA Raf. Fl. Tellur. 2:17. 1836 [1837], *descr.* = *Callisia* Linn. (1758).
 diffusa Raf. l.c., *descr.* (*Tradescantia monandra* Sw.). Haiti = *Callisia umbellulata* Lam.
 COMMELINA Linn.
 *glomerata Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.

*longifolia Raf. Atl. Jour. 1:147. 1832, *descr.* Florida.

*undulata Raf. Herb. Raf. 63. 1833, *nom.* Kentucky or Illinois.

- #DICLISA Raf. Fl. Tellur. 4:122. 1836 [1838], *nom.*, subgen. *Dirtea* Raf. (*Dirtea africana* Raf.; *Commelina communis* auct. Afr.) = *Commelina* Linn.
 DILASIA Raf. Fl. Tellur. 4:122. 1836 [1838], *descr.* Genus validus fide Pichon Not. Syst. 12:236. 1946 (*Streptylis* Raf. 1838; *Murdannia* Royle, 1839; *Dichoespermum* Wight, 1853; *Prionostachys* Hassk., 1866; *Baoulia* A. Chev., 1912; *Phacneilema* Brückn., 1926).
 vaginata Raf. op. cit. 123, *descr.* (*Commelina vaginata* Linn.). India.
 DIRTEA Raf. Fl. Tellur. 3:69. 1836 [1837], *descr.* = *Commelina* Linn.
 africana Raf. op. cit. 4:122. 1836 [1838], *descr.* (*Commelina communis* auct. Afr.) = *Commelina africana* Linn.
 japonica Raf. op. cit. 3:69. 1836 [1837], *descr.* (*Commelina japonica* Thunb.). Japan = *Aneilema japonicum* (Thunb.) Kunth = *Dilasia* sp.
 DITELESIA Raf. Fl. Tellur. 3:69. 1836 [1837], *descr.* = *Dilasia* Raf.
 nudiflora Raf. l.c., *nom.* (*Commelina nudiflora* Linn.). India = *Aneilema nudiflorum* (Linn.) R. Br. = *Dilasia* sp.
 *EOTHINANTHES Raf. New Fl. N. Am. 2:83. 1837; Fl. Tellur. 2:16. 1836 [1837], *nom. alt. provis.* *Etheosanthes* Raf. (1825) = *Tradescantia* Linn., fide Pichon, Not. Syst. 12:234. 1946.
 ETHEOSANTHES Raf. Neogen. 3. 1825, *descr.*; Fl. Tellur. 2:16. 1836 [1837], *descr.*; New Fl. N. Am. 2:83. 1836 [1837], *descr.* = *praec.*
 ciliata Raf. l.c., *descr.*; Atl. Jour. 1:179. 1833, *nom.*; Herb. Raf. 26. 1833, *nom.* Louisiana, Texas.
 EUDIPETALA Raf. Fl. Tellur. 3:68. 1836 [1837], *descr.* = *Commelina* Linn.
 deficiens Raf. l.c., *descr.* (*Commelina deficiens* Hook. Bot. Mag. 53: t. 2644. 1826). Brazil = *Commelina virginica* Linn.
 GIBASIS Raf. Fl. Tellur. 2:16. 1836 [1837], *descr.* = *Tradescantia* Linn.
 pulchella Raf. l.c., *descr.* (*Tradescantia pulchella* H.B.K.). Mexico.
 HEMINEMA Raf. Fl. Tellur. 2:17. 1836 [1837], *descr.*; op. cit. 4:122. 1836 [1838], *descr.* = *Tripogandra* Raf. (1837).
 multiflora Raf. l.c., 17, *descr.* (*Tradescantia multiflora* Sw.). West Indies = *Tripogandra multiflora* (Sw.) Raf.
 LARNALLES Raf. Fl. Tellur. 3:70. 1836 [1837], *descr.* = *Commelina* Linn.
 dichotoma Raf. op. cit. 71, *descr.* Appalachian Mountains.
 glauca Raf. l.c., *descr.* Kentucky, Illinois.
 LEIANDRA Raf. Fl. Tellur. 2:17. 1836 [1837], *descr.* = *Tradescantia* Linn.
 cordifolia Raf. l.c., *descr.* (*Tradescantia cordifolia* Sw.). West Indies.
 divaricata Raf. l.c., *descr.* (*Commelina hexandra* Aubl.). Tropical America = *Dichorisandra hexandra* (Aubl.) Standl. (*D. aubletiana* Schult. f.).
 NEPHRAELES Raf. ex Jacks*. Ind. Kew. 2:307. 1894 = *seq. parviflora* Raf. ex Jacks*. l.c. = *seq.*
 *NEPHRALES Raf. Fl. Tellur. 3:70. 1836 [1837], *descr.* = *Commelina* Linn.
 *parviflora Raf. l.c., *descr.* Kentucky, Tennessee.
 *NEPHRALUS Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Raf. Med. Fl. 2:212. 1830, *nom.* = *praec.*
 *parviflorus Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky = *praec.*
 OVIDIA Raf. Fl. Tellur. 3:68. 1836 [1837], *descr.* = *Commelina* Linn.
 gracilis Raf. l.c., *descr.* (*Commelina gracilis* Ruiz & Pavon, Fl. Peruv. 1:44. t. 72. 1798; Hook. Bot. Mag. 58: t. 3047. 1831; *C. formosa* Grah.). South America = *Commelina diffusa* Burm. f. (*C. nudiflora* auct., non Linn.).
 PETALOXIS Raf. Fl. Tellur. 2:83. 1836 [1837], *descr.* = *Dichorisandra* Milkan (1820), *nom. conserv.* (*Stickmannia* Necker, 1790).
 purpurea Raf. l.c., *descr.* (*Dichorisandra oxypetala* Hook. Bot. Mag. 54: t. 2721. 1827). Brazil.
 PHYODINA Raf. Fl. Tellur. 2:16. 1836 [1837], *descr.* Genus validus fide Pichon, Not. Syst. 12:235. 1946. (*Cuthbertia* Small, 1903; *Tradescantella* Small, 1903).
 gracilis Raf. l.c., *nom.* (*Tradescantia gracilis* H.B.K.). South America.

- POGOMESIA** Raf. Fl. Tellur. 3:67. 1836 [1837], *descr.* = *Tinantia* Scheidw. (1839), *nom. conserv.* (*Pogomesia* Raf. 1837).
- undata* Raf. l.c., *descr.* (*Tradescantia undata* Humb. & Bonpl.; Lindl. Bot. Reg. 17: t. 1403. 1831). Cumana (Venezuela) and Mexico = *Tinantia erecta* (Jacq.) Schlecht. (*T. fugax* Scheidw.).
- SARCOPERIS** Raf. Fl. Tellur. 2:16. 1836 [1837], *descr.*; op. cit. 4:122. 1836 [1838], *descr. ampl.* (*Zanonia* Craemer, 1803, non Linn.) = *Campelia* L. C. Rich. (1808).
- bibracteata* Raf. op. cit. 2:16. 1836 [1837], *nom.* (*Zanonia bibracteata* Craemer). Mexico to Brazil = *Campelia zanonia* (Linn.) H.B.K.
- SIDERASIS** Raf. Fl. Tellur. 3:67. 1836 [1837], *descr.* = *Pyrreheima* Hassk. (1869).
- acaulis* Raf. l.c., *descr.* (*acaules*) (*Tradescantia fuscata* Lodd. Bot. Cab. 4: t. 582. 1820). Brazil = *Pyrreheima fuscata* (Lodd.) Brückn. (P. loddigesii Hassk.).
- SIPHOSTIMA** Raf. Fl. Tellur. 2:16. 1836 [1837], *descr.* = *Cyanotis* D. Don (1825).
- cristata* Raf. l.c., *nom.* (*Tradescantia cristata* Jacq.). India = *Cyanotis cristata* (Linn.) Roem. & Schult.
- STICKMANNIA** Neck. (1790) = *Dichorisandra* Mikan (1820), *nom. conserv.*
- africana* Raf. ex Jacks*. Ind. Kew. 2:996. 1895 (*Commelina africana* Linn.). South Africa.
- guayanensis* Raf. ex Jacks*. l.c. (*Commelina guianensis* Klotzsch). Guiana = *Athyrocarpus persicariaefolius* (DC.) Hemsl.
- longicollis* Raf. ex Jacks*. l.c. (*Commelina longicaulis* Jacq.). Pantropic = *Commelina diffusa* Burm. f. (*C. nudiflora* auct. non Linn.).
- mollis* Raf. ex Jacks*. l.c. (*Commelina mollis* Jacq.). Pantropic = *Commelina benghalensis* Linn.
- STREPTYLIS** Raf. Fl. Tellur. 4:122. 1836 [1838], *descr.* = *Dilasia* Raf. (1838).
- bracteolata* Raf. l.c., *nom.* (*Commelina bracteolata* Lam.; *C. spirata* Linn.). Indo-Malaysia.
- TALIPULIA** Raf. Fl. Tellur. 2:17. 1836 [1837], *descr.*, *nom. provis.* sub *Aploleia* Raf. (Type *Tradescantia malabarica* Linn.) = *Aneilema* R. Br. (1810).
- TONNINGIA** Neck. = *Cyanotis* D. Don (1825), *nom. conserv.* (*Tonningia* Neck., 1790).
- *axillaris* Raf. Fl. Tellur. 2:16. 1836 [1837], *nom.* (*Tradescantia axillaris* Linn.). Indo-Malaysia = *Cyanotis axillaris* (Linn.) Roem. & Schult.
- *speciosa* Raf. l.c., *nom.* (*Tradescantia speciosa* Linn.). South Africa = *Cyanotis speciosa* (Linn.) Hassk. (*Cyanotis nodiflora* Kunth).
- TRADESCANTIA** Linn.
- axillaris* Raf. New Fl. N. Am. 2:87. 1836 [1837], *descr.* Central and western Kentucky = *T. subaspera* Ker-Gawl. var. *flexuosa* Raf. l.c., *descr.*
- subaspera Raf. l.c., *descr.*
- barbata* Raf. op. cit. 85, *descr.* Western Kentucky and Illinois = *T. ohienensis* Raf. (*T. canaliculata* Raf.).
- var. *pumila* Raf. l.c., *descr.* Kentucky.
- trachiloma Raf. op. cit. 86, *descr.* Kentucky.
- brevicaulis* Raf. Atl. Jour. 1:150. 1832, *descr.*; New Fl. N. Am. 2:86. 1836 [1837], *descr.* Kentucky, Illinois = *T. virginiana* Linn. fide Anders. & Woods. Contr. Arnold Arb. 9:61. 1935.
- †*canaliculata* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Atl. Jour. 1:150. 1832, *descr.*; New Fl. N. Am. 2:86. 1836 [1837], *descr.* Kentucky, Missouri = *T. ohienensis* Raf.; see Fernald, Rhodora 46:311. 1944.
- *ciliata* Raf. New Fl. N. Am. 2:85. 1836 [1837], *nom. nov. provis.* *Tradescantia virginica* Linn. var. *angustifolia* Raf. = *T. virginiana* Linn.
- discolor* Raf. New Fl. N. Am. 2:87. 1836 [1837], *descr.*, non L'Hérit. (1788). Florida, Alabama = *T. hirsutiflora* Bush (1904); see Fernald, Rhodora 46:311. 1944.
- var. *ramosa* Raf. l.c., *descr.*
- divaricata* Raf. Atl. Jour. 1:148. 1832, *descr.*; New Fl. N. Am. 2:88. 1836 [1837], *descr.* Florida = *T. ohienensis* Raf. (*T. canaliculata* Raf.).
- †*flexuosa* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Atl. Jour. 1:150. 1832, *descr.* Kentucky, Missouri = *T. subaspera* Ker-Gawl.
- graminifolia* Raf. Atl. Jour. 1:148. 1832, *descr.* Florida = *T. rosea* Vent.
- levigata* Raf. New Fl. N. Am. 2: 85. 1836 [1837], *descr.* Appalachian Mountains of Virginia and Carolina = *T. ohienensis* Raf. (*T. canaliculata* Raf.).
- var. *incarnata* Raf. l.c., *descr.*
- ohienensis* Raf. Précis Découv. Somiol. 45. 1814, *descr.*; Jour. Bot. (Desv.) 4:272. 1814, *descr.*; New Fl. N. Am. 2:84. 1836 [1837], *descr.* Ohio (*T. canaliculata* Raf., 1832); see Fernald, Rhodora 46:311. 1944.
- *ohienensis* Raf. ex Anders. & Woods. Contr. Arnold Arb. 9:75. 1935, *nom.* in syn. sub *T. canaliculata* Raf. = *praec.*
- pumila* Raf. New Fl. N. Am. 2:86. 1836 [1837], *descr.* Kentucky = *T. virginiana* Linn.
- *purpurea* Raf. op. cit. 84, *nom. alt.* *Tradescantia virginica* Linn. var. *purpurea* Raf. = *T. virginiana* Linn.
- reflexa* Raf. op. cit. 87, *descr.* Alabama = *T. ohienensis* Raf. (*T. canaliculata* Raf.).
- var. *drepsia* Raf. op. cit. 88, *descr.*
- riparia* Raf. l.c., *descr.* Kentucky, Alabama = *praec.*
- rosea* Vent. var. *pauciflora* Raf. l.c., *nom.*, *nota* (*Tradescantia graminifolia* Raf.). Alabama, Florida = *T. rosea* Vent.
- †*rupestris* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Atl. Jour. 1:18, *nom.*, 150, *descr.* 1832; New Fl. N. Am. 2:86. 1836 [1837], *descr.* Ohio, Indiana, Kentucky = *T. virginiana* Linn.
- virginica* Linn. = *T. virginiana* Linn.
- var. *alba* Raf. New Fl. N. Am. 2:84. 1836 [1837] (*Tradescantia virginica* Linn., fl. albo Schult.; Hook. Bot. Mag. 63: t. 3501. 1836).
- angustifolia* Raf. op. cit. 85, *descr.* Pennsylvania, Maryland, Virginia.
- barbata* Raf. op. cit. 84, *descr.* Cultivated.
- purpurea* Raf. l.c., *descr.* Cultivated.
- ramosa* Raf. op. cit. 85, *descr.* Cultivated.
- TRIPAGANDRA** Raf. ex Jacks*. Ind. Kew. 2:1121. 1895, *sphalm.* = *seq.*
- multiflora* Raf. ex Jacks*. l.c., = *seq.*
- *TRIPOGANDRA* Raf. Fl. Tellur. 2:16. 1836 [1837], *descr.* Genus validus fide Pichon, Not. Syst. 12:236. 1946, ut *Tripagandra* (*Heminema* Raf., 1837; *Descantaria* Schlecht., 1853; *Disgrega* Hassk., 1866).
- *multiflora* Raf. l.c., *descr.* (*Tradescantia multiflora* Sw.; Jacq. Ic. Pl. rar. 2: t. 355. 1786-93; *T. procumbens* Willd.). Venezuela.
- *TROPITIA* Raf. ex Pichon, Nat. Syst. 12:234. 1946, *sphalm.* = *seq.*
- #*TROPITRIA* Raf. Fl. Tellur. 3:68. 1836 [1837], *descr.*, *provis.* subgen. *Tradescantia* Linn. = *Tradescantia* Linn.
- crassula* Raf. ex Jacks*. Ind. Kew. 2:1133. 1893 (*Tradescantia crassula* Link & Otto). South America.

PONTEDERACEAE

- *CADACYA* Raf. Anal. Nat. Tabl. Univ. 200. 1815, *nom.* = *Kadokia* Raf. (1837) = *Monochoria* Presl (1827).
- CALCARUNIA** Raf. Med. Fl. 2:106. 1830, *descr.* (*Pontederia hastata* Linn.); Fl. Tellur. 2:9. 1836 [1837], *nom.* in syn. sub *Kadokia* Raf. = *Monochoria* Presl (1827).
- *acuminata* Raf. Fl. Tellur. 2:10. 1836 [1837], *nom.* (*Pontederia dilatata* Ham.). India = *Monochoria hastata* (Linn.) Solms.
- hastata* Raf. ex Jacks*. Ind. Kew. 1:380. 1893 (*Pontederia hastata* Linn.). Tropical Asia = *Monochoria hastata* (Linn.) Solms.
- CARIGOLA** Raf. Fl. Tellur. 2:10. 1836 [1837], *nom.*; New Fl. N. Am. 2:78. 1836 [1837], *nom.* = *Monochoria* Presl (1827).
- hastata* Raf. Fl. Tellur. l.c., *descr.* (*Pontederia hastata* Linn.). Tropical Asia = *Monochoria hastata* (Linn.) Solms.
- *ENDOLIMNA* Raf. New Fl. N. Am. 2:75. 1836 [1837], *nom. nov.* *Lunania* Raf. (1830) = *Heteranthera* Ruiz & Pavon (1794).
- GOMPHIMA** Raf. Fl. Tellur. 2:10. 1836 [1837], *nom.*; New Fl. N. Am. 2:75. 1836 [1837], *nom.* = *Monochoria* Presl (1827).
- vaginalis* Raf. Fl. Tellur. l.c., *descr.* (*Pontederia vaginalis* Linn.). Tropical Asia = *Monochoria vaginalis* (Linn.) Presl.
- KADAKIA** Raf. Fl. Tellur. 2:9. 1836 [1837], *descr.* = *Monochoria* Presl (1827) (Type, *Calcarunia acuminata* Raf.); New Fl. N. Am. 2:75. 1836 [1837], *nom.* = *Pontederia dilatata* Buch.-Ham.) = *Monochoria hastata* (Linn.) Solms. India.
- LUNANIA** Raf. Med. Fl. 2:106. 1830, *descr.*; Fl. Tellur. 2:11. 1836 [1837], *descr.*; New Fl. N. Am. 2:75. 1836 [1837], *nom.* = *Heteranthera* Ruiz & Pavon (1794).

- uniflora Raf. Med. Fl. et Fl. Tellur. 11.cc., descr. (*Pontederia limosa* Sw.). West Indies, Mexico=*Heteranthera limosa* (Sw.) Willd.
- #**NARUKILA** Raf. Fl. Tellur. 2:10. 1836 [1837], descr., subgen. *Pontederia* Linn. (Type *Pontederia rotundifolia* Linn. f.)=*Pontederia* Linn.
- PIAROPUS** Raf. Fl. Tellur. 2:81. 1836 [1837], descr.=*Eichhornia* Kunth (1843) nom. conserv.
- azureus Raf. op. cit. 82, descr. (*Pontederia azurea* Sw.). West Indies=*Eichhornia azurea* (Sw.) Kunth.
- crassipes Raf. ex Jacks*. Ind. Kew. 2:519. 1895 est *P. crassipes* Britton, Ann. N. Y. Acad. Sci. 7:241. 1893=*Eichhornia crassipes* (Mart.) Solms.
- mesomelas Raf. op. cit. 81, descr. (*Pontederia crassipes* Mart.). Brazil=*Eichhornia crassipes* (Mart.) Solms.
- tricolor Raf. l.c., descr. (*Pontederia azurea* sensu Hook. Bot. Mag. 56: t. 2932. 1829). Guiana to Ecuador=*Eichhornia crassipes* (Mart.) Solms.
- undulatus Raf. Fl. Tellur. 4:121. 1836 [1838], descr. (*Pontederia azurea* sensu Lunan, Hort. Jamaic.). Jamaica=*Eichhornia azurea* (Mart.) Solms.
- TRIEXASTIMA** Raf. Fl. Tellur. 4:121. 1836 [1838], nom. nov. *Lunania* Raf. (1830), non *Lunanea* DC. (1825)=*Heteranthera* Ruiz & Pavon (1794).
- UMSEMA** Raf. Med. Repos. II. 5:352. 1808, nom.; Jour. Bot. (Paris) 2:170. 1809, nom.=*Unisema* Raf. (1815)=*Pontederia* Linn.
- mucronata Raf. l.c., nom. (*Pontederia cordata* Linn.); A. Gray, Am. Jour. Sci. 40:228. 1841, nom.; Central Atlantic States=*Pontederia cordata* Linn.
- obtusifolia Raf. l.c., nom. (*Pontederia cordata* Linn.); A. Gray, l.c., nom.; Central Atlantic States=*Pontederia cordata* Linn.
- UNISEMA** Raf. Anal. Nat. Tabl. Univ. 200. 1815, nom.; Am. Monthly Mag. Crit. Rev. 2:265. 1818, nom., nota (*Pontederia cordata* Linn.); op. cit. 4:192. 1819, nom., nota; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, nom., nota; Med. Fl. 2:105. 1830, descr.; Loud. Gard. Mag. 8:248. 1832, nom., iter. Schlecht. Linnaea 8: Lit.-Ber. 74. 1833, iter. Britten Jour. Bot. 38:229. 1900; Fl. Tellur. 1:32, 54. 1836 [1837], nom.; op. cit. 2:10. 1836 [1837], descr.; New Fl. N. Am. 2:74. 1836 [1837], descr.; Good Book. 45. 1840, nom.=*Pontederia* Linn.
- acutifolia Raf. Med. Fl. 2:107. 1830, descr. (*Pontederia cordata* sensu Lam.); New Fl. N. Am. 2:76. 1836 [1837], descr. Carolina=*Pontederia lanceolata* Nutt., forma brasiliensis (Solms) Fernald, Rhodora 27: 80-81. 1925.
- deltifolia Raf. Med. Fl. 2:105, 107. f. 93. 1830, descr.; Fl. Tellur. 2:11. 1836 [1837], nom., nota; New Fl. N. Am. 2:75. 1836 [1837], descr. Western Kentucky, Tennessee, Alabama, and Florida=*Pontederia cordata* Linn.
- heterophylla Raf. Med. Fl. 2:108. 1830, descr.; New Fl. N. Am. 2:76. 1836 [1837], descr. New York to Louisiana=*Pontederia cordata* Linn., forma
var. lanceolata Raf. l.c., nom.
var. stenocardia Raf. l.c., descr.
- lanceifolia Raf. Atl. Jour. 1:178. 1833, descr.; Herb. Raf. 26. 1833, descr.; New Fl. N. Am. 2:76. 1836 [1837], descr. (†*Pontederia lanceifolia* Muhl. Cat. 34. 1813). Florida to Texas=*Pontederia cordata* Linn.
- latifolia Raf. Med. Fl. 2:107. 1830, descr.; New Fl. N. Am. 2:76. 1836 [1837], descr. New Jersey to Florida=*Pontederia cordata* Linn.
var. albiflora Raf. l.c., nom.
var. elatior Raf. l.c., nom.
var. pallida Raf. l.c., nom.
var. undulata Raf. l.c., nom.
- media Raf. Med. Fl. 2:107. 1830, descr.; New Fl. N. Am. 2:75. 1836 [1837], descr. New York to Carolina=*Pontederia cordata* Linn.
var. albiflora Raf. l.c., nom.; New Fl. N. Am. 2:76. 1836 [1837], descr.
angustifolia Raf. l.c., nom., descr.
- mucronata Raf. l.c., descr., op. cit. 77, descr. Virginia=*Pontederia cordata* Linn.
- obliquata Raf. l.c., descr., op. cit. 76, descr. New Jersey to Virginia=*Pontederia cordata* Linn.
- orbiculata Raf. Med. Fl. 2:108. 1830, nom. nov. provis. *Pontederia rotundifolia* Linn. f. South America=*Pontederia rotundifolia* Linn. f.

- peduncularis Raf. New Fl. N. Am. 2:75. 1836 [1837], descr. (*U. purshiana* Raf. ?; *Pontederia angustifolia* Pursh ?). Carolina to Florida=*Pontederia cordata* Linn.
var. parvifolia Raf. l.c., descr.
- purshiana Raf. Med. Fl. 2:107. 1830, descr. (*Pontederia angustifolia* Pursh); New Fl. N. Am. 2:75. 1836 [1837], nom. Southeastern United States=*Pontederia cordata* Linn. forma *angustifolia* (Pursh) House.
- rotundifolia Raf. op. cit. 108, descr.; New Fl. N. Am. 2:77. 1836 [1837], descr. Kentucky, Illinois=? *Pontederia cordata* Linn.
- sagittata Raf. Fl. Ludovic. 18. 1817 (*Fléchière* (*sagittaria*) à feuilles... en flèches à fleurs bleues Rob. Voy. Louis. 3:340. 1807), nom. alt. *Sagittaria* ? *cerulea* Raf. Louisiana=? *Pontederia lanceolata* Nutt.

JUNCACEAE

- #**AGATHRYON** Raf. Aut. Bot. 196. 1840, descr., subgen. *Juncus* Linn. (Type *Juncus grandiflorus* Linn. f.)=*Marsippospermum* Desv. (1808).
- JUNCUS** Linn.
- albus Raf. Fl. Ludovic. 17. 1817, nom. (*Jonc de la Rivière Vermillion à bractées blanches* Rob. Voy. Louis. 3:340. 1807). Louisiana.
- buffonius Raf. Aut. Bot. 196. 1840, descr., sphalm.=*J. bufonius* Linn.
var. flexuosa Raf. l.c., nom.
var. fulva Raf. l.c., nom.
var. gracilis Raf. l.c., nom.
var. maritima Raf. l.c., nom.
- **campocarpus* Raf. op. cit. 192, nom., sub *Tristemon falcatus* Raf., sphalm.=*J. lamprocarpus* Ehrh. Europe.
- **cespitosus* Raf. op. cit. 196, descr. Alleghany Mountains.
- **convolutus* Raf. op. cit. 195, descr. Appalachian Mountains.
- **creticus* Raf. op. cit. 196, descr. Crete, Sicily.
- effusus Linn.
var. albescens Raf. op. cit. 194, nom.
densiflorus Raf. l.c., nom. (sphalm. *aensiflorus*)
fuscatus Raf. l.c., nom.
laxiflorus Raf. l.c., nom.
paniculatus Raf. l.c., nom.
- **falcatus* Raf. Atl. Jour. 1:18. 1832, nom.
- †*floridanus* Raf. Aut. Bot. 194. 1840, descr.; et ex Engelm. Trans. Acad. Sci. St. Louis 2:451. 1866. Southern Florida =*J. gerardi* Loisel., 1810.
- **fuscatus* Raf. l.c., descr. Kentucky, Tennessee.
- **pauperculus* Raf. op. cit. 195, descr. Alleghany Mountains.
- **pumilus* Raf. op. cit. 196, descr. Europe and North America.
- **recurvatus* Conrad ex Raf. op. cit. 194, descr. (*Juncus dichotomus* sensu Torr.). New Jersey.
- **secundiflorus* Raf. l.c., descr. Western Kentucky, Arkansas.
- **setaceus* Raf. Med. Repos. II. 5:362. 1808, descr.; Jour. Bot. (Paris) 1:231. 1809, descr. Maryland=*Juncus setaceus* Rostk. Junc. 13. t. 1. f. 2. 1801.
- tenuis Willd.; Raf. Aut. Bot. 194. 1840. Ohio to Florida.
var. elatior Raf. l.c., nom.
var. pauciflorus Raf. l.c., nom.
var. spicans Raf. l.c., nom.
- **triphyllus* Raf. op. cit. 195, descr. Southern New Jersey.
- **virgatus* Raf. l.c., descr. Florida.
- LUZULA** DC.
- **acuminata* Raf. Aut. Bot. 193. 1840, descr. Boreal America (*L. saltuensis* Fernald, 1903); see Fernald, Rhodora 46:4. 1944.
- **callosa* Raf. l.c., descr. (*L. pilosa* sensu bot. Sicil.). Sicily.
- campestris (Linn.) DC. Eurasia, North America.
var. bicolor Raf. l.c., nom.
var. ce[s]pitosa Raf. l.c., nom.
var. elatior Raf. l.c., nom.
var. pallida Raf. l.c., nom.
var. pumila Raf. l.c., nom.
var. purpurea Raf. l.c., nom.
- **congesta* Raf. l.c., nom. (*Juncus congestus* Thuill.). France.
- **filamentosa* Raf. Am. Jour. Sci. 1:80. 1818, nom. Pennsylvania.
- **labradorica* Raf. Aut. Bot. 193. 1840, descr. Labrador=*Juncus parviflora* (Ehrh.) Desv.; see Fernald, Rhodora 46:4. 1944.
- ***OLISCA** Raf. Aut. Bot. 192. 1840, nom. nov. provis. sub *Tristemon simplex* Raf. (*Juncus triglumis* Linn.). Europe=*Juncus* Linn.

- ***TRISTEMON** Raf. Fl. Tellur. 4:32. 1836 [1838], *descr.*, non Raf. (1819)=*Juncus* Linn.
 ***albus** Raf. Aut. Bot. 191. 1840, *descr.* (*Juncus acuminatus* sensu Ell.). Kentucky to Carolina=*Juncus acuminatus* Michx.
 ***biflorus** Raf. op. cit. 192 (*Juncus biflorus* Ell.). Carolina to Florida=*Juncus marginatus* Rostk.
conglomeratus Raf. Fl. Tellur. 4:32. 1836 [1838], *nom.* (*Juncus conglomeratus* Linn.). Europe.
 ***echinatus** Raf. Aut. Bot. 190. 1840, *descr.* (*Juncus echinatus* Ell.). New Jersey to Carolina=*Juncus scirpoides* Lam. var. *prolifer* Raf. op. cit. 191, *descr.*
 ***falcatus** Raf. op. cit. 192, *descr.* (*Juncus "campocarpus"* Raf., *sphalm.*=*J. lamprocarpus* Ehrh.). Europe.
 ***fulvus** Raf. op. cit. 191, *descr.* (*Juncus nodosus* Linn.). Canada to Virginia.
 ***gladiatus** Raf. l.c., *descr.* (*Juncus polycephalus* sensu Ell.). Carolina to Florida=*Juncus polycephalus* Michx.
 ***glomeratus** Raf. op. cit. 192, *nom.* (*Juncus glomeratus* Thunb.). Japan.
 ***laxus** Raf. l.c., *descr.* (*Juncus aristulatus* Michx.). Carolina to Florida=*Juncus marginatus* Rostk. var. *aristulatus* (Michx.) Coville. (*J. aristulatus* Michx.).
 ***macrocarpus** Raf. op. cit. 191, *descr.* (*Juncus acuminatus* Michx.). Canada to Alabama.
marginatus Raf. Fl. Tellur. 4:32. 1836 [1838], *nom.* (*Juncus marginatus* Rostk.); Aut. Bot. 192. 1840, *nom.*, *nota*. Canada to Carolina.
odoratus Raf. Fl. Tellur. l.c., *nom.* (*Juncus [marginatus* Rostk.] var. ? *odoratus* Torr., 1824). New York.
polycephalus Raf. l.c., *nom.* (*Juncus polycephalus* Michx.). Southeastern United States.
 ***repens** Raf. Aut. Bot. 190. 1840, *nom.*, *nota* (*Juncus repens* Michx.). Carolina to Louisiana.
 ***simplex** Raf. op. cit. 192, *nom.*, *nota* (*Juncus triglumis* Linn.). Alps of Europe.
 ***stellatus** Raf. op. cit. 191, *descr.* Alleghany Mountains=*Juncus militaris* Bigel. var. *bigelowi* Raf. op. cit. 192, *descr.* (*Juncus militaris* Bigel.). New England.
paradoxus Raf. l.c., *descr.* Kentucky.
 ***striatus** Raf. l.c., *descr.* (*Juncus fluitans* Michx.). Canada to Carolina=*Juncus subtilis* E. Mey.
 ***uliginosus** Raf. op. cit. 192, *descr.* (*Juncus uliginosus* Roth). Europe=*Juncus heterophyllus* Dufour.

LILIACEAE

- ABALON** Adans.; Raf. Neogen. 3. 1825, *nom.* (*Diclinotrys* Raf.); Fl. Tellur. 4:27. 1836 [1838], *nom.*, *nota*; New Fl. N. Am. 1:33. 1836, *descr.*; op. cit. 4:103. 1836 [1838], *nom.*, *nota*. (*Chamaelirium* Willd.; *Ophiostachys* Delile).
 †**albiflorum** Raf. Med. Fl. 2:182. 1830, *nom.*, *nota*; Fl. Tellur. 2:30. 1836 [1837], *nom.* (*Veratrum luteum* Linn.); New Fl. N. Am. 1:33. 1836, *descr.* (*Melanthium dioicum* Walt.; *Helonias lutea* Ker-Gawl.; *Helonias dioica* Pursh). Maine to Missouri and Florida=*Abalon luteum* (Linn.) Fernald (*Chamaelirium luteum* A. Gray).
 var. **obovatum** Raf. New Fl. N. Am. 1:34. 1836, *descr.* Alabama, Florida.
pumilum Raf. l.c., *descr.* Alleghany Mountains.
serpentarium Raf. l.c., *descr.*
spicatum Raf. l.c., *descr.* Kentucky.
sylvaticum Raf. l.c., *descr.*
ABAMA Adans.; Raf. New Fl. N. Am. 1:34. 1836, *descr.* (*Tofieldia* Huds.); Fl. Tellur. 2:28. 1836 [1837], *descr.* (*Tofieldia* Huds.); New Fl. N. Am. 4:103. 1836 [1838], *nom.*, *nota*=*Nartheceum* Huds. (1762), *nom. conserv.* (*Abama* Adans., 1763).
glutinosa Raf. New Fl. N. Am. 1:36. 1836, *descr.* Lake Mistassin.
pubens Raf. op. cit. 35, *descr.* (*Nartheceum pubens* Michx.; *Anthericum calyculatum* Linn., quoad syn. Gronov.; *Tofieldia pubescens* Pers.); Aut. Bot. 65. 1840, *nom.* Delaware to Carolina=*Tofieldia racemosa* (Walt.) Britton, Sterns & Poggenb. (*Triantha racemosa* Small).
pusilla Raf. op. cit. 36, *descr.* Lake Mistassin=*Tofieldia pusilla* (Michx.) Pers.

- scabra** Raf. op. cit. 35, *descr.*; Fl. Tellur. 2:28. 1836 [1837], *nom.* (*Tofieldia pubens* sensu Ell.; *Melanthium racemosum* Walt.); Aut. Bot. 65. 1840, *nom.* Carolina, Alabama=*Tofieldia racemosa* (Walt.) Britton, Sterns & Poggenb. (*Triantha racemosa* Small).
AGLITHEIS Raf. Fl. Tellur. 2:17. 1836 [1837], *descr.*, *nom. nov.* *Allium* Linn.
carinata Raf. op. cit. 18, *nom.* (*Allium carinatum* Linn.). Europe.
 ***geminata** Raf. l.c., *nom.* [*Allium geminatum* Raf.]. Kentucky.
 ***latifolia** Raf. l.c., *nom.* [*Allium latifolium* Raf.]. Rocky Mountains or Oregon.
 ***melopolis** Raf. Aut. Bot. 58. 1840, *descr.* Siberia ?
 ***petiolata** Raf. Fl. Tellur. l.c., *nom.* Hab. ?
 ***quinqueflora** Raf. l.c., *nom.* (*Allium quinqueflorum* Raf.); Aut. Bot. 58. 1840, *descr.* Kentucky to Texas.
 ***stenia** Raf. Fl. Tellur. l.c., *nom.* (*Allium stenium* Raf.). Illinois.
tatarica Raf. l.c., *nom.* (*Allium tataricum* Linn. f.). Russia, Siberia.
 ***triccum** Raf. Aut. Bot. 58. 1840, *descr.* (*Allium tricoccum* Ait.). Canada, New England.
 ***triflora** Raf. Fl. Tellur. l.c., *nom.* (*Allium triflorum* Raf.). Pennsylvania=*Allium tricoccum* Ait.
 ***triphyla** Raf. l.c., *nom.* (*Allium triphyllum* Raf.). Rocky Mountains or Oregon.
ursina Raf. l.c., *nom.* (*Allium ursinum* Linn.). Europe, northern Asia.
ALETRIS Linn.
 ***lucida** Raf. Aut. Bot. 136. 1840, *descr.* Wasioto Hills, Kentucky.
ALLIUM Linn.
 ***cernuum** Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* (*sphalm.*, "*cernuum*"). Central Atlantic United States. An *Allium cernuum* Roth (1789) ?
 ***cuneifolium** Raf. Herb. Raf. 52. 1833, *nom.* alt. *Allium triphyllum* Raf. Rocky Mountains or Oregon.
cupani Raf. Car. Nuov. Gen. Sp. Sicil. 86. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; *Chloris Aetn.* 12. 1815, *nom.* Sicily.
 ***geminatum** Raf. Herb. Raf. 63, *nom.*, 64, *descr.*, 1833. Western Kentucky.
hyemale Raf. Fl. Ludovic. 19. 1817, *descr.* (*Anonyme* Rob. Voy. Louis. 3:346. 1807). Louisiana.
 ***lanceolatum** Raf. Herb. Raf. 52. 1833, *nom.* Rocky Mountains or Oregon.
 ***latifolium** Raf. l.c., *nom.* Rocky Mountains or Oregon.
maritimum Raf. Car. Nuov. Gen. Sp. Sicil. 86. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; *Chloris Aetn.* 7. 1815, *nom.* Sicily.
 ***molly** Raf. Fl. Tellur. 2:19. 1836 [1837], *nom.*, *sphalm.*=*A. moly* Linn. Europe.
 ***quinqueflorum** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Herb. Raf. 63, *nom.*, 64, *descr.*, 1833. Illinois.
 ***stenium** Raf. Herb. Raf. 63, *nom.*, 65, *descr.*, 1833. Illinois.
triflorum Raf. Med. Repos. II. 5:362. 1808, *descr.*; Jour. Bot. (Paris) 1:231. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:174. 1818, *nom.*, *nota* (*Allium triflorum* Pursh); op. cit. 265. 1818, *nom.* (*Allium triflorum* Pursh); op. cit. 4:193. 1819, *nom.* (*Allium triflorum* Pursh); Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.*, *nota* (*Allium triflorum* Pursh). Pennsylvania=*Allium tricoccum* Ait.
 ***triphylum** Raf. Herb. Raf. 52. 1833, *nom.* Rocky Mountains or Oregon.
 ***ALOES** Raf. Aut. Bot. 136. 1840, *nom.*, *sphalm.*=*Aloe* Linn.
 ***variegata** Raf. l.c., *nom.*, *nota* (*Aloe variegata* Linn.). Africa.
AMBLIRION Raf. Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.*, *nota* (*Lilium pudicum* Pursh); op. cit. 4:192. 1819, *nom.* (*Lilium pudicum* Pursh); Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.*; Atl. Jour. 1:153. 1833, *nom.* ut subgen. *Tulipa* Linn.; Fl. Tellur. 2:35. 1836 [1837] *descr.*=*Fritillaria* Linn.
graecum Raf. Fl. Tellur. 2:5. 1836 [1837], *descr.* (*Tulipa sibthorpiana* Sibth. & Sm.). Greece=*Fritillaria sibthorpiana* (Sibth. & Sm.) Baker.

- pubicum* Raf. Atl. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.* (*Lilium pubicum* Pursh); Atl. Jour. 1:153. 1832, *nom.* in syn. sub *Tulipa pudica* Raf.; Fl. Tellur. 2:35. 1836 [1837], *descr.* North America=*Fritillaria pudica* (Pursh) Spreng.
- AMBLOSTIMA** Raf. Fl. Tellur. 2:26. 1836 [1837], *descr.*; Aut. Bot. 64. 1840, *descr.*=*Schoenolirion* Durand (1855), *nom. conserv.* (*Amblostima* Raf. 1837).
- albiflora* Raf. l.c., *descr.* (*Ornithogalum croceum* Ell.). Georgia, Florida (*Oxytrisa albiflora* Pollard; *Schoenolirium elliotii* Feay)=*Schoenolirion albiflorum* (Raf.) Gates.
- crocea* Raf. Fl. Tellur. l.c., *descr.* (*Phalangium croceum* Michx.). Georgia=*Schoenolirion croceum* (Michx.) A. Gray.
- †latifolia* Raf. Aut. Bot. 64. 1840, *descr.* Alabama, Florida.
- AMIANTHUM** Raf. Fl. Tellur. 4:27. 1836 [1838]=*Amianthum* A. Gray (1837), *nom. conserv.* (*Chrosperma* Raf., 1825).
- **muscatotoxicum* Raf. l.c., *nom.* Eastern North America=*Amianthum muscatotoxicum* (Walt.) A. Gray (*Chrosperma muscatotoxicum* (Walt.) O. Kuntze).
- ***AMIDENA** sensu Raf. Fl. Tellur. 4:15. 1836 [1838], *descr.*, non Adans (1763)=*Rohdea* Roth (1821).
- japonica* Raf. l.c., *descr.* (*Orontium japonicum* Thunb.). Japan=*Rohdea japonica* (Thunb.) Roth.
- **undulata* Raf. Aut. Bot. 197. 1840, *descr.* Siberia.
- ANEPSA** Raf. Fl. Tellur. 2:31. 1836 [1837], *descr.*; op. cit. 4:27. 1836 [1838] *nom.*, *nota* (*Veratrum* Linn. subgen. *Stenanthium* A. Gray, 1837)=*Stenanthium* (A. Gray) Kunth (1843), *nom. conserv.* (*Anepsa* Raf., 1837).
- carinata* Raf. Fl. Tellur. 2:31. 1836 [1837], *descr.* (*Veratrum angustifolium* Pursh). Appalachian Mountains=*Stenanthium gramineum* (Ker-Gawl.) Kunth.
- graminifolia* Raf. l.c., *descr.* Western Kentucky=*Stenanthium gramineum* (Ker-Gawl.) Kunth.
- latifolia* Raf. l.c., *descr.* (*Veratrum parviflorum* Michx.). Appalachian Mountains=*Melanthium parviflorum* (Michx.) S. Wats.
- spicata* Raf. l.c., *descr.* Appalachian Mountains=*Stenanthium gramineum* (Ker-Gawl.) Kunth.
- ANIKETON** Raf. Aut. Bot. 125, *nom.*, 130, *descr.*, 1840; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Smilax* Linn.
- coriaceum* Raf. op. cit. 130, *descr.*; Pennell, l.c., *nom.* Cuba.
- #ANTHOPIUM** Raf. Med. Fl. 2:97. 1830, *descr.*, subgen. *Trillium* Linn.; Aut. Bot. 132. 1840, *nom.*, subgen. *Trillium* Linn.
- #ANTHYRON** Raf. Aut. Bot. 56. 1940, *descr.* subgen. provis. *Skilla* Raf.=*Scilla* Linn. (Type *S. filiformis* Raf.).
- APHOMA** Raf. Fl. Tellur. 2:31. 1836 [1837], *descr.*=*Iphigenia* Kunth (1843).
- angustifolium* Raf. op. cit. 32, *descr.* India=*Iphigenia indica* (Linn.) Kunth.
- cuneata* Raf. l.c., *descr.* India=*Iphigenia indica* (Linn.) Kunth.
- ASKOLAME** Raf. Fl. Tellur. 2:11. 1836 [1837], *descr.*=*Milla* Cav. (1793).
- biflora* Raf. op. cit. 12, *descr.* (*Milla biflora* Cav. l.c. 2:76. t. 196. 1793). Mexico.
- ATEVALA** Raf. Aut. Bot. 136. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Aloe* Linn.
- imbricata* Raf. l.c., *descr.*; Pennell, l.c., *nom.* Africa.
- **remotiflora* Raf. l.c., *descr.* Africa.
- AXILLARIA** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom. nov.* *Polygonatum* Desf.; op. cit. 3:100. 1818, *nom.*, *nota* (*Polygonatum* Desf.); op. cit. 4:189. 192. 208. 1819, *nom.*, *nota* (*Polygonatum* Desf.); Jour. Phys. Chim. Hist. Nat. 89:102. 262. 1819, *nom.*, *nota* (*Polygonatum* Desf.); Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *nom.*, *nota* (*Polygonatum* Desf.); Med. Fl. 2:84. 1830, *nom.* sub *Sigillaria* Raf.; Loud. Gard. Mag. 8:246. 1832, *nom.* (*Polygonatum* Desf.), iter. Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, iter. Britten, Jour. Bot. 38:226. 1900; Fl. Tellur. 4:18. 1836 [1838], *nom.* sub *Globeris* Raf.; Aut. Bot. 68. 1840, *nom.* sub *Sigillaria* Raf.=*Polygonatum* Mill. (1754).
- BAIMO** Raf. Fl. Tellur. 4:27. 1836 [1838], *descr.*=*Fritillaria* Linn.
- cirrhusa* Raf. l.c., *descr.* (*Uvularia cirrhosa* Thunb.). Japan=*Fritillaria verticillata* Willd. var. *thunbergii* Baker.
- BLEPHANTHERA** Raf. Fl. Tellur. 2:59. 1836 [1837], *descr.*=*Bulbine* Linn.
- depressa* Raf. l.c., *descr.* (*Anthericum bulbosum* R. Br.; *Bulbine australis* Spreng.). Australia.
- hookeri* Raf. l.c., *descr.* (*Anthericum bulbosum* sensu Hook. Bot. Mag. 57: t. 3017. 1830). Australia.
- BORBOYA** Raf. Fl. Tellur. 3:52. 1836 [1837], *descr.*=*Hya-cinthus* Linn.
- spicata* Raf. l.c., *descr.* (*Hyacinthus spicatus* Sibth. & Sm.; Lindl. Bot. Reg. 22: t. 1869. 1836). Greece.
- BULBEDULIS** Raf. Fl. Tellur. 2:26. 1836 [1837], *nom. alt.* *Lemotris* Raf. et *Quamasia* Raf.=*Camassia* Lindl. (1832), *nom. conserv.* (*Quamasia* Raf., 1818, *Cyanotris* Raf., 1818).
- BULBINE** Linn.
- **liliago* Raf. Fl. Tellur. 2:28. 1836 [1837], *nom.* (*Anthericum liliago* Linn.; *Phalangium liliago* Schreb.). Mediterranean region=*Anthericum liliago* Linn.
- ***CHAMALIRIUM** Raf. Fl. Tellur. 4:27. 1836 [1838], *nom.* sub. *Abalon* Adans.=*Chamaelirium* Willd.
- CHROSPERMA** Raf. Neogen. 3. 1825, *descr.*; Med. Fl. 2:208. 1830, *nom.*, *nota* (*Abalon* Adans. fide Raf. l.c.)=*Amianthum* A. Gray (1848), *nom. conserv.* (*Chrosperma* Raf., 1825).
- laetum* Raf. ex Jacks*. Ind. Kew. 1:525. 1893 (*Melanthium laetum* Ait.). North America=*Amianthum muscatotoxicum* (Walt.) A. Gray. (*Chrosperma muscatotoxicum* O. Kuntze).
- †CLINTONIA** Raf. Fl. Ludovic. 167. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:266. 1818, *descr.* (*Dracaena borealis* Aiton; *Smilacina borealis* Ker-Gawl.; *Convallaria umbellulata* Michx.); op. cit. 4:189. 192. 208. 357. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.*; Western Minerva 42. 1821, *descr.*; Fox, Science II. 12: 213. 1900, *nom.*, *nota*; Med. Fl. 2:84. 1830, *descr.*; op. cit. 211, *nom.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, iter. Britten, Jour. Bot. 38: 226. 1900; Herb. Raf. 19. 1833, *nom.*; Fl. Tellur. 4:17. 1836 [1838], *nom.*, *nota*; New Fl. N. Am. 1:6. 1836; op. cit. 2:27. 1836 [1837], *nom.*, *nota*; Life of Travels 60. 1836, *nom.*
- aitoni* Raf. Atl. Jour. 1:120. 1832, *nom. alt.* *Clintonia borealis* Raf. Canada=*C. borealis* (Ait.) Raf.
- angustifolia* Raf. New Fl. N. Am. 2:79. 1836 [1837], *descr.*; Aut. Bot. 58. 1840, *nom.* Alleghany Mountains=*C. borealis* (Ait.) Raf.
- biflora* Raf. op. cit. 78, *descr.*; Aut. Bot. 58. 1840, *nom.*, *nota*. Southern Appalachian or Alleghany Mountains=*C. borealis* (Ait.) Raf.
- var. *humilis* Raf. New Fl. op. cit. 79, *descr.*
- biumbella* Raf. op. cit. 81, *descr.* Alleghany Mountains=*C. borealis* (Ait.) Raf.
- var. *aitoni* Raf. l.c., *descr.* (*Clintonia aitonii* Raf.; *Dracaena borealis* Ait.; Andr. Bot. Repos. 3: t. 206. 1802). Canada=*C. borealis* (Ait.) Raf.
- borealis* Raf. Atl. Jour. 1:120. 1832, *descr.* (*Clintonia aitonii* Raf. [*Dracaena borealis* Ait.]). North America=*Clintonia borealis* (Ait.) Raf.
- ciliata* Raf. Am. Monthly Mag. Crit. Rev. 4:357. 1819, *descr.*; Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *descr.* (*Dracaena borealis* Ait.; *Convallaria umbellulata* Michx.); Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.* (*Dracaena borealis* Aiton; *Convallaria umbellulata* Michx.). North America=*Clintonia umbellulata* (Michx.) Morong.
- decantha* Raf. Atl. Jour. 1:120. 1832, *descr.* Alleghany Mountains of Virginia and Cumberland Mountains of Kentucky=*C. umbellulata* (Michx.) Morong.
- falcata* Raf. New Fl. N. Am. 2:79. 1836 [1837], *descr.* Oquago Mountains, New York=*C. borealis* (Ait.) Raf.
- var. *tridens* Raf. l.c., *descr.*
- fulva* Raf. op. cit. 82, *descr.* [Eastern United States]=*C. borealis* (Ait.) Raf.
- glomerata* Raf. op. cit. 83, *descr.* Appalachian and Wasiooto Mountains=*C. borealis* (Ait.) Raf.
- latifolia* Raf. op. cit. 81, *descr.* Taconic Mountains and New England=*C. borealis* (Ait.) Raf.
- †multiflora* Raf. Med. Fl. 2:85. 1830, *nom.*; Atl. Jour. 1:120. 1832, *descr.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, iter. Britten, Jour. Bot. 38:226. 1900. Canada; cultivated in England=*C. borealis* (Ait.) Raf.
- mutans* Raf. Ann. Nat. Ann. Synop. 16. 1820, *nom.* sub *Clintonia podanisia* Raf. (*Dracaena borealis* Aiton). North America=*C. borealis* (Ait.) Raf.
- **natans* Raf. ex Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, *nom.*, *sphalm.*=seq.

† **CLINTONIA** (*continued*).

- nutans* Raf. Med. Fl. 2:85. 1830, *nom.*; Western Minerva 43. 1832, *descr.*, iter. Fox, Science II. 12:213. 1900; Loud. Gard. Mag. 8:246. 1832, *nom.*, iter. Britten Jour. Bot. 38:226. 1900; Atl. Jour. 1:120. 1832, *nom.*; New Fl. N. Am. 2:80. 1836 [1837], *descr.*; Aut. Bot. 58. 1840, *nom.* Canada, New York, Pennsylvania=*C. borealis* (Ait.) Raf.
 var. *bifolia* Raf. New Fl. N. Am. 2:80. 1836 [1837], *descr.* Pocono Mountains, Pennsylvania.
dasistema Raf. Western Minerva 43. 1832, *descr.*, iter. Fox, Science II. 12:213. 1900.
fascicularis Raf. l.c., *descr.*, Fox, l.c., *descr.*
flexipes Raf. New Fl. N. Am. 2:80. 1836 [1837], *descr.* Alleghany Mountains.
macrostema Raf. Western Minerva 43. 1832, *descr.*, iter. Fox, Science II. 12:213. 1900.
obovata Raf. l.c., *descr.*
prolifera Raf. l.c., *descr.*
uniflora Raf. l.c., *descr.*
odorata Raf. Ann. Nat. Ann. Synop. 16. 1820, *nom.*, sub *Clintonia podanisia* Raf. (*Convallaria umbellulata* Michx.); Western Minerva 43. 1821, *descr.* (err. *Cintonia*), iter. Fox, Science II. 12:213. 1900; Med. Fl. 2:85. 1830, *nom.*; Atl. Jour. 1:120. 1832, *nom.*; New Fl. N. Am. 2:82. 1836 [1837], *descr.*; Aut. Bot. 58. 1840, *nom.* (*Convallaria umbellulata* Michx.). North America=*C. umbellulata* (Michx.) Morong.
 var. *decantha* Raf. New Fl. N. Am. 2:82. 1836 [1837], *descr.* (*Clintonia decantha* Raf. fide Raf.). Virginia.
multiflora Raf. l.c., *descr.* (*Clintonia multiflora* Raf. fide Raf.). Canada.
punctata Raf. Western Minerva 43. 1821, *descr.*, iter. Fox, Science II. 12:214. 1900. Alleghany Mountains.
ophioglossoides Raf. New Fl. N. Am. 2:80. 1836 [1837], *descr.* Michigan=*C. borealis* (Ait.) Raf.
parviflora Raf. Ann. Nat. Ann. Synop. 16. 1820, *descr.*; Western Minerva 43. 1821, *descr.*, iter. Fox, Science II. 12:213. 1900; Med. Fl. 2:85. 1830, *nom.*; Atl. Jour. 1:120. 1832, *nom.*; Life of Travels 60. 1836, *nom.*; New Fl. N. Am. 2:81. 1836 [1837], *descr.*; Aut. Bot. 58. 1840, *nom.* Alleghany Mountains of Maryland=*C. umbellulata* (Michx.) Morong.
 var. *abortiva* Raf. Western Minerva 43. 1821, *descr.*, iter. Fox, Science II. 12:213. 1900.
plicata Raf. l.c., *descr.*
podanisia Raf. Ann. Nat. Ann. Synop. 16. 1820, *descr.*; Western Minerva 43. 1821, *descr.*, iter. Fox, Science II. 12:213. 1900; Med. Fl. 2:85. 1830, *nom.*; Atl. Jour. 1:120. 1832, *nom.*; New Fl. N. Am. 2:80. 1836 [1837], *descr.* Pennsylvania=*C. umbellulata* (Michx.) Raf.
 var. *biflora* Raf. Western Minerva 43. 1821, *descr.*, iter. Fox, Science II. 12:213. 1900.
fascicularis Raf. l.c., *descr.*
glabrata Raf. l.c., *descr.*
phyllostema Raf. l.c., *descr.*
triflora Raf. New Fl. N. Am. 2:79. 1836 [1837], *descr.* Alleghany Mountains=*C. borealis* (Ait.) Raf.
 var. *tridens* Raf. l.c., *descr.*
undulata Raf. op. cit. 81, *nom.* alt. *Clintonia aitoni* Raf. Eastern North America=*C. borealis* (Ait.) Raf.
CODOMALE Raf. Aut. Bot. 67. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*=*Polygonatum* Mill. (1754).
purpurascens Raf. l.c., *descr.* (*Convallaria grandiflora* hort.); Pennell, l.c., *nom.* Siberia=*Polygonatum* sp.
COILONOX Raf. Fl. Tellur. 2:28. 1836 [1837], *descr.*=*Ornithogalum* Linn.
albuoides Raf. l.c., *nom.* (*Phalangium albuoides* Poir.). South Africa=*Ornithogalum suaveolens* Jacq.
COLCHICUM Linn.
 **medium* Raf. Chloris Aetn. 12. 1815, *nom.* Sicily.
CONRADIA Raf. Neogen. 3. 1825, *descr.*; New Fl. N. Am. 1:34. 1836, *nom.* sub *Abama* Adans., non *Conradia* Nutt. (1834)=*Tofieldia* Huds. (1778).
CONVALLARIA Linn.
 **grandiflora* Hort. ex Raf. Aut. Bot. 67. 1840, *nom.* sub *Codomale* Raf.=*Codomale purpurascens* Raf.=*Polygonatum* sp. Siberia.

- **montana* Raf. Aut. Bot. 66. 1840, *descr.*, *nom.* nov. *Convallaria pseudo-majalis* Bartr. in Rees Cycl. Am. ed. 10: no. 12. 1812-24, *nom.*, *nota*. Unaka and Cherokee Mountains, North Carolina (*C. majuscula* Greene; *C. globosa* Greene); see Fernald, Rhodora 46:12-14. 1944.
 **parviflora* Raf. Herb. Raf. 66. 1833, *nom.*; Aut. Bot. 66. 1840, *descr.* Appalachian and Wasioote Mountains=? *prae*.
 **umbellata* Raf. Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *nom.*, *sphalm.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *nom.*, *sphalm.* Eastern North America=*C. umbellulata* Michx.=*Clintonia umbellulata* (Michx.) Morong.
CRONYXIUM Raf. Fl. Tellur. 2:28. 1836 [1837], *descr.*=*Lloydia* Salisb. (1812), non Neck. (1790), *nom. conserv.* (*Rhabdocrinum* Richb., 1828; *Nectarobothrium* Ledeb., 1830).
serotinum Raf. l.c., *nom.* (*Anthericum serotinum* Linn.; *Phalangium serotinum* Poir.). Europe=*Lloydia serotina* (Linn.) Sweet.
CROSPERMA Raf. Fl. Tellur. 2:32. 1836 [1837], *descr.*; op. cit. 4:27. 1836 [1838], *nom.*, *nota*=*Amianthium* A. Gray (1848), *nom. conserv.* (*Chrosperma* Raf., 1825).
angustifolia Raf. op. cit. 2:33. *nom.*
 †*laeta* Raf. Fl. Tellur. 2:33. 1836 [1837], *nom.*, *sphalm.* "*loeta* (*Melanthium laetum* Ait.; *M. [Helionas] erythrospermum* Raf.) op. cit. 4:27. 1836 [1838], *nom.* Eastern North America=*Amianthium muscaetoxicum* (Walt.) A. Gray (*Chrosperma muscaetoxicum* O. Kuntze.)
phalangioides Raf. Fl. Tellur. 2:33. 1836 [1837], *nom.* (*Melanthium phalangioides* Willd.; *Anthericum subtrigynum* Jacq.). Eastern North America=*Amianthium muscaetoxicum* (Walt.) A. Gray (*Chrosperma muscaetoxicum* O. Kuntze).
 #**CUSCUMIA** Raf. New Fl. N. Am. 2:78. 1836 [1837], *descr.*, subgen. *Clintonia* Raf.; Fl. Tellur. 4:17. 1836 [1838], *nom.* =*Clintonia* Raf. (1818).
 †**CYANOTRIS** Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *descr.*; op. cit. 4:192, *nom.*, *nota*, 208, *nom.*, 1819; Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.*, *nota* (*Helonias angustifolia* Michx.)=*Camassia* Lindl. (1832), *nom. conserv.* (*Quamasia* Raf., 1818, *Cyanotris* Raf., 1818).
angustifolia Raf. ex Jacks*. Ind. Kew. 1:676. 1893 (*Helonias angustifolia* Michx.). Southeastern United States=*Amianthium angustifolium* (Michx.) A. Gray (*Tracyanthus angustifolius* Small).
 **pratensis* Raf. Western Minerva 58. 1821, *nom.*, *nota* (*Helonias angustifolia* Michx.), iter. Fox, Science II. 12: 214. 1900=*prae*.
 †*scilloides* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *descr.* Alleghany Mountains or Ohio=*Camassia scilloides* (Raf.) Cory, Rhodora 38:405. 1936.
DAISWA Raf. Fl. Tellur. 4:18. 1836 [1838], *descr.*=*Paris* Linn. polyphyla Raf. l.c., *descr.* (*Paris polyphylla* Sm.). Nepal.
DELOSTYLIS Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom.*, subgen. *Trillium* (*T. stylosum* Nutt.); Aut. Bot. 132. 1840, *nom.*, subgen. *Trillium*; Jour. Phys. Chim. Hist. Nat. 89:102. 1819, ut gen., *descr.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.*=*Trillium* Linn.
cernuum Raf. Jour. Phys. Chim. Hist. Nat. l.c., *nom.*; Isis von Oken l.c., *nom.* (*Trillium stylosum* Nutt.). North America=*Trillium catesbaei* Ell., 1817.
stylosum Raf. ex Jacks*. Ind. Kew. 1:725. 1893 (*Trillium stylosum* Nutt.). North America=*prae*.
 #**DELOSTYLUM** Raf. Med. Fl. 2:97, 102, 1830, *descr.*, subgen. *Trillium* Linn.=*Trillium* Linn.
 #**DESMIPUS** Raf. New Fl. N. Am. 1:36. 1836, *nom.* subgen. *Abama* Adans., 1763 (*A. pusilla* Raf.)=*Tofieldia* Huds. (1778).
 ***DICLINOTRIS** Raf. New Fl. N. Am. 1:33. 1836, *nom.*=seq.
DICLINOTRYS Raf. Neogen. 3. 1825, *descr.* (*Abalon* Adans.); New Fl. N. Am. 1:33. 1836, *nom.* in syn. sub *Abalon* Adans.; Fl. Tellur. 4:27. 1836 [1838], *nom.*=*Chamaelirium* Willd. (1808).
albiflorum Raf. Neogen. l.c., *nom.* (*Veratrum luteum* Linn.). North America=*Chamaelirium luteum* (Linn.) A. Gray.
DILAX Raf. Aut. Bot. 125, *nom.*, 131, *descr.*, 1840; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Smilax* Linn.
muricata Raf. l.c. 131, *descr.* (*Smilax tannifolia* Michx.); Pennell, l.c., *nom.* Florida=*Smilax tamnoides* Linn.
 ***DRACENA** Raf. Fl. Tellur. 1:73. 1836 [1837], *nom.*; op. cit. 4:16. 1836 [1838], *nom.*=*Dracaena* Linn.

- DRAKAINA** Raf. Fl. Tellur. 4:16. 1836 [1838], *nom. nov.*
Dracaena Linn. (sub. *Euphyllia* Raf.)=*Dracaena* Linn.
draco Raf. op. cit. 17, *nom.* (*Dracaena draco* Linn.). Canary Islands.
marginata Raf. l.c., *nom.*, *nota* (*Dracaena marginata* Ait., *Phylloma albiflorum* Ker-Gawl. Bot. Mag. 38: t. 1585. 1813). Mascarene Islands=*Lomatophyllum purpureum* (Lam.) Durand & Schinz.
- ELIOKARMOS** Raf. Fl. Tellur. 2:24. 1836 [1837], *descr.*; op. cit. 3:58. 1836 [1837], *descr.*=*Ornithogalum* Linn.
aureus Raf. l.c., *nom.*; op. cit. 59, *descr.* (*Ornithogalum aureum* Curtis). South Africa=*Ornithogalum thyrsoides* Jacq. var. *aureum* (Curtis) Baker.
caudatus Raf. Fl. Tellur. 2:24. 1836 [1837], *nom.* (*Ornithogalum caudatum* Ait.). South Africa.
coarctatus Raf. l.c., *nom.* (*Ornithogalum coarctatum* Jacq.). South Africa.
maculatus Raf. Fl. Tellur. 3:59, *descr.* (*Ornithogalum arabicum* DC. in Redouté Lil. 2: t. 63. 1804, non Linn.; *O. thyrsoides* Jacq., var. *album* Ker-Gawl. Bot. Reg. 4: t. 316. 1818). South Africa=*Ornithogalum thyrsoides* Jacq.
thyrsoides Raf. Fl. Tellur. 2:24. 1836 [1837], *nom.*; op. cit. 3:58. 1836 [1837], *descr.* (*Ornithogalum thyrsoides* Jacq.; Sims, Bot. Mag. 29: t. 1164. 1809; Ker-Gawl. Bot. Reg. 4: t. 305. 1818; DC. in Redouté Lil. 6: t. 333. 1811). South Africa.
- ENDOCOMA** Raf. Fl. Tellur. 2:58. 1836 [1837], *descr.*=*Bottionea* Colla (1834).
parviflora Raf. l.c., *descr.* (*Anthericum plumosum* sensu Hook. Bot. Mag. 58: t. 3084. 1831). Chile=*Bottionea thysanthoides* Colla.
peruviana Raf. l.c., *descr.* (*Anthericum plumosum* Ruiz & Pav. Fl. Peruv. 3:68. t. 300. 1802). Peru=*Bottionea thysanthoides* Colla.
- ENDOGONA** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.*, *nom. nov.* *Phalangium* Adans.=*Anthericum* Linn.
adenanthera Raf. l.c., *nom.* (*Anthericum adenanthera* Forst. f.). New Caledonia=*Dianella nemorosa* Lam.
ramosa Raf. l.c., *nom.*; Aut. Bot. 57. 1840, *nom.* (*Anthericum ramosum* Linn.; *Phalangium ramosum* Houtt.). Sicily, Greece=*Anthericum ramosum* Linn.
- ENDOTIS** Raf. Fl. Tellur. 2:21. 1836 [1837], *descr.*=*Allium* Linn.
pyrenaica Raf. l.c., *descr.* (*Allium appendiculatum* Ram. ex Pers.). Southern Europe.
- *ENNEARINA** Raf. Aut. Bot. 65. 1840, *nom. nov.* *Pleea* Michx. (1803).
**pleiana* Raf. l.c., *nom.*, *nota* (*Pleea tenuifolia* Michx.). Carolina=*Pleea tenuifolia* Michx.
- EPIMENIDION** Raf. Fl. Tellur. 2:13. 1836 [1837], *descr.*=*Scilla* Linn.
hyacinthoides Raf. l.c., *nom.* (*Scilla hyacinthoides* Jacq.; *S. campanulata* Ait.). Spain=*Scilla hispanica* Mill.
undulatum Raf. op. cit. 14., *nom.* (*Scilla undulata* Desf.). Mediterranean region=*Urginea undulata* (Desf.) Steinh.
- EPIONIX** Raf. Fl. Tellur. 2:31. 1836 [1837], *descr.*=*Baeometra* Salisb. (1812).
flava Raf. l.c., *descr.* (*Melanthium flavum* Sm.). South Africa=*Baeometra breyniana* (Linn.) Baill. (*B. columnaris* Salisb.).
rubra Raf. l.c., *descr.* [*Melanthium uniflorum* Jacq.]. South Africa=*Baeometra breyniana* (Linn.) Baill. (*B. columnaris* Salisb.).
- ERYTHRIONUM** Linn.
albidum Nutt. New York to Kentucky and Missouri.
 var. *angustifolium* Raf. Med. Fl. 1:173. 1838, iter. Man. Med. Bot. 173. 1841, *nom.*
bracteatum Raf. l.c., *nom.*
candidum Raf. l.c., *nom.*
cerulescens Raf. l.c., *nom.*
clandestinum Raf. l.c., *nom.*
glaucum Raf. l.c., *nom.*
grandiflorum Raf. l.c., *nom.*
maculatum Raf. l.c., *nom.*
parviflorum Raf. l.c., *nom.*
angustatum Raf. Med. Repos. II. 5:354. 1808, *nom. nov.*
Erythronium dens-canis sensu Michx.; iter. Jour. Bot. (Paris) 2:174. 1809, *nom.* Eastern North America=*E. americanum* Ker-Gawl.
**anisophyllum* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
- flavum* Smith; Raf. Med. Fl. 1:168. t. 35. 1828, iter. Man. Med. Bot. 168. t. 35. 1841. Eastern North America=*E. americanum* Ker-Gawl.
 var. *bracteatum* Raf. op. cit. 170, *descr.*
croceum Raf. l.c., *descr.*
glaucum Raf. op. cit. 171, *descr.*
grandiflorum Raf. l.c., *descr.*
latifolium Raf. l.c., *descr.*
lucidum Raf. l.c., *descr.*
parviflorum Raf. l.c., *descr.*
viperinum Raf. op. cit. 170, *descr.*
**luteum* Raf. Western Minerva 1:58. 1821, *nom.*, *nota*. Kentucky.
**parvifolium* Raf. Herb. Raf. 66. 1833, *descr.* Appalachian Mountains.
**petiolatum* Raf. l.c., *nom.* Appalachian Mountains.
- ETHESIA** Raf. Fl. Tellur. 3:60. 1836 [1837], *descr.*=*Ornithogalum* Linn.
prasina Raf. l.c., *descr.* (*Ornithogalum prasinum* Ker-Gawl. Bot. Reg. 2: t. 158. 1816). South Africa.
- *EUBOTRYS** Raf. Fl. Tellur. 3:5. 1836 [1837], *nom. nov.*
Muscari Mill., non *Eubotrys* Nutt. (1843)=*Muscari* Mill. (1752).
**arvensis* Raf. Aut. Bot. 124. 1840, *nom.* (*Hyacinthus botryoides* Linn.). Europe; Pennsylvania=*Muscari botryoides* (Linn.) Mill.
**comosa* Raf. l.c., *nom.* (*Hyacinthus comosus* Linn.). Sicily=*Muscari comosum* (Linn.) Mill.
**odorata* Raf. l.c., *nom.*, *nota* (*Hyacinthus racemosus* Linn.). Europe=*Muscari racemosum* (Linn.) Mill.
- EUDESMIS** Raf. Fl. Tellur. 3:80. 1836 [1837], *descr.*=*Colchicum* Linn.
fascicularis Raf. l.c., *descr.* (*Hypoxis fascicularis* Linn.; *Allium sylvestre* sive *moly minus albo amplo* Russell, Nat. Hist. Aleppo t. 2. 1756; *Hypoxis fascicularis* Linn.; Soland. ex Russell op. cit. ed. 2, 2:250. t. 9. 1794). Syria.
- EUPHYLEIA** Raf. Fl. Tellur. 4:16. 1836 [1838], *descr.*=*Cordylina* Adans. (1763).
odorata Raf. op. cit. 17, *descr.* (*Dracaena australis* Forst. f.; Hook. Bot. Mag. 55: t. 2835. 1828; *D. oblecta* Grah.). New Zealand=*Cordylina australis* (Forst. f.) Hook.
**EUPHYLIEU* Raf. Fl. Tellur. 4:17. 1836 [1838], *nom.*, *sphalm.* =*praec.*
- EVONYXIS** Raf. Fl. Tellur. 2:29. 1836 [1837], *descr.*; op. cit. 4:27. 1836 [1838], *nom.*, *nota* (*Leimanthium* Willd.)=*Melanthium* Linn.
glaucia Raf. Fl. Tellur. 2:29. 1836 [1837], *nom.* (*Melanthium glaucum* Nutt.). North America=*Zygadenus glaucus* Nutt.
hybrida Raf. l.c., *nom.* (*Melanthium hybridum* Wait.). South-eastern United States=*Melanthium virginicum* Linn.
monoica Raf. l.c., *nom.* (*Melanthium monoicum* Pursh.). Eastern North America=*Melanthium virginicum* Linn.
undulata Raf. l.c., *descr.* Alabama.
virginica Raf. l.c., *nom.* (*Melanthium virginicum* Linn.). Eastern North America.
- FENELONIA** Raf. Atl. Jour. 1:145. 1832, *descr.*; Fl. Tellur. 1:16. 1836 [1837], *nom.*; op. cit. 2:23. 1836 [1837], *descr.*=*Lloydia* Salisb. (1812).
bracteata Raf. l.c., *nom.* (*Ornithogalum bracteatum* Torr.). Rocky Mountains=*Lloydia serotina* (Linn.) Sweet.
- FLUEGEEA** L. C. Richard (1807), non *Fluggea* Willd. (1806)=*Ophiopogon* Ker-Gawl. (1807), *nom. conserv.* (Mondo Adans., 1763).
anceps Raf. ex Jacks*. Ind. Kew. 1:971. 1893 (*Convallaria japonica* Linn. f.)=*Ophiopogon japonicum* (Linn. f.) Ker-Gawl.
angulata Raf. ex Jacks*. l.c. (*Convallaria japonica* Linn. f.)=*Ophiopogon japonicum* (Linn. f.) Ker-Gawl.
- FLUGEEA** Raf. Fl. Tellur. 4:17. 1836 [1838], *descr.*=*Ophiopogon* Ker-Gawl. (1807), *nom. conserv.* (Mondo Adans., 1763).
**anceps* Raf. op. cit. 18, *descr.* (*Convallaria japonica* Linn. f.). Japan=*Ophiopogon japonicum* (Linn. f.) Ker-Gawl.
**angulata* Raf. l.c., *descr.* (*Convallaria japonica* Linn. f.). Japan=*Ophiopogon japonicum* (Linn. f.) Ker-Gawl.
- FRITILLARIA** Linn.
**messanense* Raf. Précis Découv. Somiol. 44. 1814, *descr.*; Jour. Bot. (Desv.) 4:272. 1814, *descr.* Sicily.
- FUNKIA** Spreng. (1817)=*Hosta Tratt.* (1812), *nom. conserv.* (*Saussurea* Salisb., 1807).
**angustifolia* Raf. Aut. Bot. 63. 1840, *nom.* (*Hemerocallis caerulea* Ait.). Japan=*Hosta caerulea* (Andr.) Tratt.

FUNKIA (*continued*).

- **cordata* Raf. l.c., *nom.* (*Hemerocallis caerulea* Andr.). Japan = *Hosta caerulea* (Andr.) Tratt.
- FUSIFILUM** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.* = *Urginea* Steinh. (1834).
- coarctatum* Raf. ex Jacks*. Ind. Kew. 1:984. 1893 (*Anthericum coarctatum* Ruiz & Pav.; *Phalangium coarctatum* Pers.). South America = *Excremis ramosa* Willd.
- physodes* Raf. ex Jacks*. l.c. (*Anthericum physodes* Jacq.; *Phalangium physodes* Raf.). South Africa = *Urginea physodes* (Jacq.) Baker.
- pusillum* Raf. ex Jacks*. l.c. (*Anthericum pusillum* Jacq.; *Phalangium pusillum* Raf.). South Africa = *Urginea pusilla* (Jacq.) Baker.
- GEBOSSON** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 65. 1833, *descr.*, ut subgen. *Allium*; Fl. Tellur. 2:19. 1836 [1837], *descr.*; Aut. Bot. 59. 1840, *nom.*, *nota* = *Nothoscordum* Kunth (1843), *nom. conserv.* (*Geboscon* Raf., 1824, 1837; *Pseudoscordum* Herb., 1837).
- **acetabulum* Raf. Aut. Bot. 61. 1840, *descr.* Arkansas, Texas.
- **anisanthum* Raf. l.c., *descr.* Florida.
- **carneum* Raf. l.c., *descr.* Rocky Mountains.
- **geminatum* Raf. Herb. Raf. 64. 1833, *descr.* (*Allium striatum* sensu auct. Am.); Aut. Bot. 60. 1840, *descr.* Western Kentucky = *Nothoscordum bivalve* (Linn.) Britton.
- **lanceolatum* Raf. Aut. Bot. 59. 1840, *descr.* (*Allium victorialis* Linn.; *A. ursinum* Linn.). Europe, Siberia = *Allium victorialis* Linn.
- **latifolium* Raf. l.c., *descr.* "Orion or East Siberia."
- **obliquum* Raf. Fl. Tellur. 2:19. 1836 [1837], *nom.* (*Allium obliquum* Linn.). Siberia.
- **petiolare* Raf. Aut. Bot. 59. 1840, *nom. alt.* *Geboscon ursinum* Raf. Alps of Europe = *Allium ursinum* Linn.
- **proliferum* Raf. op. cit. 60. 1840, *descr.* Missouri.
- **rubrum* Raf. op. cit. 61, *descr.* (*Allium rubrum* Raf. l.c., *nom.*) Siberia. An *Allium rubellum* Bieb.?
- **stenium* Raf. op. cit. 60, *descr.* [*Allium stenium* Raf. Herb. Raf. 65. 1833]. Illinois.
- striatum* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
- **sulcatum* Raf. Aut. Bot. 61. 1840, *descr.* Florida.
- **tenellum* Raf. op. cit. 60, *descr.* Florida.
- **triphyllum* Raf. op. cit. 59, *descr.* (*Allium victorialis* Linn.). Siberia or Oregon.
- **ursinum* Raf. l.c., *descr.* (*Allium ursinum* Linn.). Alps of Europe.
- GENLISA** Raf. Aut. Bot. 57. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*, non *Genlisia* Reichb. (1828), nec *Genlisea* A. St. Hil. (1833) = *Scilla* Linn.
- **autumnalis* Raf. l.c., *descr.* (*Scilla autumnalis* Linn.). Europe.
- bifolia* Raf. l.c., *descr.*; Pennell, l.c., *nom.* (*Scilla bifolia* Linn.). Europe, Asia Minor.
- GETUONIS** Raf. Fl. Tellur. 2:20. 1836 [1837], *descr.* = *Allium* Linn.
- vinealis* Raf. ex Jacks*. Ind. Kew. 1:1025. 1893 (*Allium vineale* Linn.). Europe.
- GLOBERIA** Raf. Med. Fl. 2:84. 1830, *descr.* (Type *Convallaria spicata* Thunb.) = *Liriope* Lour. (1790).
- autumnalis* Raf. ex Jacks*. Ind. Kew. 1:1034. 1893. Japan = *Liriope graminifolia* (Linn.) Baker.
- spicata* Raf. ex Jacks*. l.c. (*Convallaria spicata* Thunb.). Japan = *Liriope graminifolia* (Linn.) Baker.
- GLOBERIS** Raf. Fl. Tellur. 4:18. 1836 [1837], *descr.* = *Liriope* Lour. (1790).
- **autumnalis* Raf. l.c., *descr.* (*Convallaria spicata* Thunb.). Japan = *Liriope graminifolia* (Linn.) Baker.
- GOMPHOSTYLIS** Raf. Fl. Tellur. 2:30. 1836 [1837], *descr.*, non Wall. (1830) = *Zigadenus* Michx. (1803) (*Zygadenus* auct.).
- bracteata* Raf. l.c., *descr.* (*Helonias bracteata* Sims, Bot. Mag. 41: t. 1703. 1815). Virginia = *Zigadenus bracteatus* (Sims) Sweet.
- fusca* Raf. l.c., *descr. nom. alt.* *Zigadinus fuscatus* Raf. Eastern United States.
- paniculata* Raf. l.c., *descr.* (*Melanthium virginicum* Linn.; *Veratrum virginicum* Ait.; *Helonias virginica* Ker-Gawl. Bot. Mag. 25: t. 985. 1827). Eastern United States = *Melanthium virginicum* Linn.
- #**GURENIAS** Raf. Fl. Tellur. 4:26. 1836 [1838], *descr.* subgen. *Ruscus* Linn. (Type *Ruscus androgynus* Linn.) = *Semele* Kunth (1824).

GYNODON Raf. Fl. Tellur. 2:18. 1836 [1837], *descr.* = *Allium* Linn.

- cernuum* Raf. l.c., *descr.* (*Allium cernuum* Roth). "Mts. Caucasus" [North America].
- **elioti* Raf. Aut. Bot. 62. 1840, *nom.* = *Allium elioti* Raf. = *Allium cernuum* Roth.
- elliotti* Raf. l.c., *descr.* (*Allium cernuum* sensu Ell.). Alleghany and Appalachian Mountains = *Allium cernuum* Roth.
- †*trupestre* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 63. 1833, *nom.* (*Allium nutans* auct.); Fl. Tellur. 2:18. 1836 [1837], *descr.*; Aut. Bot. 62. 1840, *nom.*, *nota* (*Allium cernuum* auct. Am.). Kentucky and western Alleghany Mountains = *Allium cernuum* Roth.
- GYROMIA** Nutt. = *Medeola* Linn.
- **acuminata* Raf. Herb. Raf. 66. 1833, *nom.*; Aut. Bot. 125. 1840, *descr.* (*Medeola virginica* Linn.). Canada to Louisiana.
- var. *angustata* Raf. Aut. Bot. l.c., *nom.*
- pentaphyla Raf. l.c., *nom.*
- picta Raf. l.c., *nom.*
- **cuneata* Raf. Aut. Bot. 125. 1840, *descr.* Alleghany Mountains.
- **cuneifolia* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
- **picta* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.
- **uniflora* Raf. op. cit. 63, *nom.* (*Medeola uniflora* Raf.). Kentucky or Illinois.
- HELONIAS** Linn.
- striata* Raf. Atl. Jour. 1:147. 1832, *descr.* Florida.
- HEMEROCALLIS** Linn.
- **cerulea* Raf. First Cat. Bot. Gard. Transylv. Univ. 21. 1824, *nom.* = *Hemerocallis caerulea* Andr. = *Hosta caerulea* Tratt. Eastern Asia.
- HEMIERIUM** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.* = *Lloydia* Salisb. (1812).
- grecum* Raf. l.c., *nom.* (*Anthericum graecum* Linn.). Greece, Asia Minor = *Lloydia graeca* (Linn.) Endl.
- planifolium* Raf. l.c., *nom.* (*Anthericum planifolium* Linn.). Europe = *Simethis planifolia* (Linn.) Gren. & Godr.
- HEROION** Raf. Fl. Tellur. 4:12. 1836 [1838], *descr.* = *Asphodeline* Reichb. (1830).
- filiformis* Raf. l.c., *descr.* (*Asphodelus tenuior* Fisch.; Sims Bot. Mag. 53: t. 2626. 1826). Caucasus Mountains = *Asphodeline tenuior* (Fisch.) Ledeb.
- ***HEXONIX** Raf. Fl. Tellur. 2:13. 1836 [1837], *descr.* = *Heloniopsis* A. Gray (1859).
- **japonica* Raf. l.c., *descr.* (*Scilla japonica* Thunb.). Japan = *Heloniopsis japonica* (Thunb.) Maxim.
- †**HEXORIMA** Raf. Med. Repos. II. 3:422. 1806, *nom.*; op. cit. II. 5:351. 1808, *nom.*, *nota*; Jour. Bot. (Paris) 2:168. 1809, *nom.*, *nota*; Specch. Sci. 1:193. 1814, *descr.*; Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:262. 1819, *nom.*, *nota* = *Streptopus* Michx. (1803).
- †*dichotoma* Raf. Med. Repos. II. cc., *nom.*; Jour. Bot. (Paris) l.c., *nom.*; Specch. Sci. l.c., *descr.*; A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.*; Pennsylvania = *Streptopus roseus* Michx.
- HYACINTHUS** Linn.
- †*belgicus* Bory ex Raf. Aut. Bot. 124. 1840 *nom.* sub *Lagocodes belgica* Raf.; hort. ex Steud. Nomencl. ed. 2, 1:779. 1840 = *Scilla festalis* Salisb.
- **botrys* Raf. l.c., *nom.* sub *Eubotrys* Raf. = *H. botryoides* Linn. = *Muscari botryoides* (Linn.) Mill. Southern Europe, Asia Minor.
- IFUON** Raf. Fl. Tellur. 4:12. 1836 [1838], *descr.* = *Asphodeline* Reichb. (1830).
- nutans* Raf. l.c., *descr.* (*Asphodelus liburnicus* Scop. Fl. Carnol. ed. 2, 1:245. t. 12. 1772). Istria = *Asphodeline liburnica* (Scop.) Reichb.
- IONCOMELLOS** Raf. ex Jacks*. Ind. Kew. 1:1221. 1893, *sphalm.* = *Loncomelos* Raf. (1837) = *Scilla* Linn.
- purpureus* Raf. ex Jacks*. l.c., *sphalm.* = *Loncomelos purpureus* Raf. Sicily = *Scilla cupani* Guss.
- IPHEION** Raf. Fl. Tellur. 2:12. 1836 [1837], *descr.* (*Beauverdia* Herter, 1941); see Stearn, Gard. Chron. III. 114:60. 1943.
- uniflorum* Raf. l.c., *descr.* (*Milla uniflora* Grah.; Hook. Bot. Mag. 61: t. 3327. 1834); Stearn l.c. Argentina. (*Triteleia uniflora* Lindl.; *Brodiaea uniflora* Engl.; *Leucocoryne uniflora* Greene; *Hookera uniflora* O. Kuntze; *Beauverdia uniflora* Herter).

- ***IRILLIUM** Raf. Ann. Gén. Sci. Phys. 7:19. 1820, *nom.*, *sphalm.* = *Trillium* Linn.
 ***petiolatum** Raf. l.c., *nom.*, *sphalm.* = *Trillium petiolatum* Pursh. Eastern North America.
 ***sessile** Raf. l.c., *nom.*, *sphalm.* = *Trillium sessile* Linn. Eastern North America.
 ***tinctorium** Raf. l.c., *nom.*, *sphalm.* = *Trillium tinctorium* Raf. Central United States.
JRILLIUM Raf. Jour. Phys. Chim. Hist. Nat. 91:72. 1820, *nom.*, *nota*, *sphalm.* = *Trillium* Linn.
 ***petiolatum** Raf. l.c., *nom.* Eastern North America = *Trillium petiolatum* Pursh.
sessile Raf. l.c., *nom.* Eastern North America = *Trillium sessile* Linn.
 ***tinctorium** Raf. l.c., *nom.* Eastern North America = *Trillium tinctorium* Raf.
KALABOTIS Raf. Fl. Tellur. 2:19. 1836 [1837], *descr.* = *Allium* Linn.
canadensis Raf. ex Jacks*. Ind. Kew. 2:2. 1894 (*Allium canadense* Linn.). North America.
clusiana Raf. ex Jacks*. l.c. (*Allium clusianum* Retz.). Europe.
flava Raf. ex Jacks*. l.c. (*Allium flavum* Linn.). Europe.
moly Raf. ex Jacks*. l.c. (*Allium moly* Linn.). Europe.
nigrum Raf. ex Jacks*. l.c. (*Allium nigrum* Linn.). Europe.
pallens Raf. ex Jacks*. l.c. (*Allium pallens* Linn.). Europe.
paniculatum Raf. ex Jacks*. l.c. (*Allium paniculatum* Linn.). Europe.
KEPA (Tourn.) Raf. Flora Tellur. 2:19. 1836 [1837], *descr.* = *Allium* Linn.
esculenta Raf. op. cit. 20, *nom.* (*Allium cepa* Linn.). Eurasia.
fistulosa Raf. l.c., *nom.* [*Allium fistulosum* Linn.]. Asia.
KINIA Raf. Specch. Sci. 1:87. 1814, *descr.* = *Quid*?
biflora Raf. l.c., *descr.* "Isleta di Borneo" (Ut videtur ins. Komoro).
KOZOLA Raf. Fl. Tellur. 1:16. 1836 [1837], *nom.*; op. cit. 2:25. 1836 [1837], *descr.* = *Heloniopsis* A. Gray (1859).
japonica Raf. op. cit. 25, *descr.* (*Scilla japonica* Thunb.). Japan = *Heloniopsis japonica* (Thunb.) Maxim.
KROMON Raf. Fl. Tellur. 2:21. 1836 [1837], *descr.* = *Allium* Linn.
parviflorum Raf. l.c., *nom.* (*Allium parviflorum* Linn.). Europe.
KUMARIA Raf. Aut. Bot. 137. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.* Ex *descr.* = *Haworthia* Duval (1809).
 ***cymbiformis** Raf. l.c., *descr.* Africa.
spicata Raf. l.c., *descr.*; Pennell, l.c., *nom.* (*Aloe retusa* auct.).
LAGOCODES Raf. Fl. Tellur. 2:24. 1836 [1837], *descr.* = *Scilla* Linn.
 ***belgica** Raf. Aut. Bot. 124. 1840, *descr.* (*Hyacinthus belgicus* Bory). Belgium = *Scilla cernua* (Linn.) Salisb.
cernua Raf. Fl. Tellur. 2:25. 1836 [1837], *nom.* (*Scilla cernua* Salisb.). Europe.
hyacinthoides Raf. l.c., *nom.* (*Scilla hyacinthoides* Jacq.). Spain.
nutans Raf. l.c., *nom.*; Aut. Bot. 124. 1840, *nom.* (*Scilla nutans* Sm.; *S. cernua* Salisb.; *Hyacinthus cernuus* Linn.; *H. non-scriptus* Linn.). Europe = *Scilla cernua* (Linn.) Salisb.
patula Raf. l.c., *nom.* (*Scilla patula* DC.). Spain = *Scilla hispanica* Mill.
LAOTHOË Raf. Fl. Tellur. 3:53. 1836 [1837], *descr.* = *Chlorogalum* Kunth (1843), *nom. conserv.* (*Laothoë* Raf., 1837).
pomeridiana Raf. l.c., *descr.* (*Scilla pomeridiana* DC.; *Anthericum pomeridianum* Ker-Gawl. Bot. Reg. 7: t. 564. 1821). South Africa = *Chlorogalum pomeridianum* (DC.) Kunth.
LEMOTRIS Raf. Fl. Tellur. 2:26. 1836 [1837], *nom.*, *prov.* *Quamasia* Raf. (1818) = *Camassia* Lindl. (1832), *nom. conserv.* (*Quamasia* Raf., 1818; *Cyanotris* Raf., 1818).
LEMOTRYS Raf. Herb. Raf. 60. 1833, *nom.*, Fl. Tellur. 3:50. 1836 [1837], *descr.*, *nom. nov. prov.* *Quamasia* Raf. (1818) = *præc.*
 ***esculenta** Raf. Herb. Raf. 60. 1833, *nom.* (*Scilla esculenta* Ker-Gawl.; *Phalangium esculentum* Nutt.). North America = *Camassia esculenta* (Ker-Gawl.) Robinson = *Camassia scilloides* (Raf.) Cory, *Rhodora* 38:405. 1936.
hyacinthina Raf. Fl. Tellur. 3:51. 1836 [1837], *nom.*, *nota*; Aut. Bot. 57. 1840, *nom.*, *nota* (*Scilla esculenta* Ker-Gawl.). Kentucky, Missouri = *Camassia scilloides* (Raf.) Cory.
***LEPICAULON** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.* = *Anthericum* Linn.
 ***squameum** Raf. l.c., *nom.* (*Anthericum squameum* Linn. f.). South Africa = *Anthericum hispidum* Linn.
LEPTILIX Raf. Neogen. 3. 1825, *nom. alt.* *Conradia* Raf.; New Fl. N. Am. 1:35. 1836, *descr.*, ut subgen. *Abama* Adans. = *Tofieldia* Huds. (1778).
LEUCRINIS Raf. Fl. Tellur. 4:27. 1836 [1838], *nom. nov.* *Leucocrinum* Nutt. (1837).
LICINIA Raf. Fl. Tellur. 3:57. 1836 [1837], *descr.* = *Anthericum* Linn.
canaliculata Raf. l.c., *descr.* (*Anthericum canaliculatum* Ait. var. *rufum* Lindl. Bot. Reg. 11: t. 877. 1825; *Phalangium canaliculatum* Poir.). South Africa = *Anthericum canaliculatum* Ait.
LILIUM Linn.
 ***pratense** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
LIRIACIS Raf. Fl. Tellur. 2:97. 1836 [1837], *descr.* = *Tulipa* Linn.
albiflora Raf. l.c., *descr.* (*Tulipa stellata* Hook. Bot. Mag. 54: t. 2762. 1827). Kumaon.
LIRIOPOGON Raf. Fl. Tellur. 2:35. 1836 [1837], *descr.* = *Tulipa* Linn.
biflorum Raf. l.c., *nom.* (*Tulipa biflora* Pall.). Caucasus.
celsianum Raf. l.c., *nom.* (*Tulipa celsiana* DC.). Southwestern Europe = *Tulipa australis* Link.
sylvestre Raf. l.c., *nom.* (*Tulipa sylvestris* Linn.). Europe.
LOMARESIS Raf. Fl. Tellur. 3:59. 1836 [1837], *descr.* = *Ornithogalum* Linn.
alba Raf. l.c., *descr.* (*Ornithogalum revolutum* Jacq. Hort. Schoenbr. 1:46. t. 89. 1797; Sims Bot. Mag. 18: t. 653. 1803; Ker-Gawl. Bot. Reg. 4: t. 315. 1818). South Africa.
LONCODILIS Raf. Fl. Tellur. 2:24. 1836 [1837], *descr.* = *Eriospermum* Jacq. (1796).
scapigera Raf. l.c., *nom.* (*Ornithogalum paradoxum* Jacq.). South Africa = *Eriospermum paradoxum* (Jacq.) Ker-Gawl.
LONCOMELLOS Raf. Fl. Tellur. 2:24. 1836 [1837], *descr.* = *Ornithogalum* Linn.
japonicus Raf. ex Jacks*. Ind. Kew. 2:110. 1894 (*Ornithogalum japonicum* Thunb.). Japan = *Heloniopsis japonica* (Thunb.) Maxim.
latifolius Raf. ex Jacks*. l.c. (*Ornithogalum latifolium* Linn.). Egypt, Arabia.
†narbonensis Raf. Aut. Bot. 56. 1840, *nom.* (*Ornithogalum narbonense* Linn.). Spain.
 ***purpureus** Raf. Sylva Tellur. 3:62. 1836 [1837], *descr.*, *sphalm.* "purpurcus" (*Scilla cupaniana* Schult. f.; Lindl. Bot. Reg. 22: t. 1878. 1836). Sicily = *Scilla cupani* Guss.
 †**pyramidalis** Raf. Aut. Bot. 56. 1840, *nom.* (*Ornithogalum pyramidalis* Linn.). Portugal.
pyrenaicus Raf. ex Jacks*. Ind. Kew. 2:110. 1894 (*Ornithogalum pyrenaicum* Linn.). Southern Europe.
secundum Raf. ex Jacks*. l.c. (*Ornithogalum secundum* Jacq.). South Africa = *Urginea secunda* (Jacq.) Baker.
suaveolens Raf. ex Jacks*. l.c. (*Ornithogalum suaveolens* Jacq.). South Africa.
LONCOSTEMON Raf. Fl. Tellur. 2:21. 1836 [1837], *descr.* = *Allium* Linn.
victoriale Raf. l.c., *nom.* (*Allium victorialis* Linn.). Eurasia.
LONCOXIS Raf. Fl. Tellur. 3:58. 1836 [1837], *descr.* = *Ornithogalum* Linn.
sulfurea Raf. l.c., *descr.* (*Anthericum sulfureum* Waldst. & Kit.; Sims, Bot. Mag. 53: t. 2623. 1826). Hungary = *Ornithogalum sulfureum* Schult. f. = *O. pyrenaicum* Linn.
 #**LUISTE** Raf. Aut. Bot. 125. 1840, *descr.* subgen. *Smilax* Linn. (Type *Smilax lanceolata* Linn.) = *Smilax* Linn.
MALIGA Raf. ex Jacks*. Ind. Kew. 2:150. 1894, *sphalm.* = *seq.* *fastigiata* Raf. ex Jacks*. l.c. = *Maligia fastigiata* Raf.
gracilis Raf. ex Jacks*. l.c. = *Maligia gracilis* Raf.
laxa Raf. ex Jacks*. l.c. = *Maligia laxa* Raf.
 ***MALIGIA** Raf. Fl. Tellur. 2:19. 1836 [1837], *descr.* = *Allium* Linn.
 ***fastigiata** Raf. l.c., *descr.* [*Allium angulosum* Linn.?]. Europe, Siberia.
 ***gracilis** Raf. l.c., *descr.* (*Allium gracile* Ait.). North America = *Nothoscordum fragrans* Kunth.
 ***laxa** Raf. l.c., *descr.* (*Allium angulosum* sensu Pursh). North America = *Allium reticulatum* Fraser ex G. Don.

- MAYANTHEMUM** DC.; Raf. Med. Fl. 2:84. 1830, *descr.* (*Smilacina* Desf.)=*Maianthemum* Weber ex Wigg. (1780), *nom. conserv.* (*Unifolium* Zinn, 1757; *Valetinia* Heist., 1763).
- **racemosum* Raf. l.c., *nom.* [*Maianthemum racemosum* Link]. North America=*Smilacina racemosa* (Linn.) Desf.
- **stellatum* Raf. l.c., *nom.* (*Maianthemum stellatum* Link). North America=*Smilacina stellata* (Linn.) Desf.
- **trifolium* Raf. l.c., *nom.* Hab.?
- ***MAYANTHUS** Raf. Atl. Jour. 1:151. 1832, *nom.* (*Convallaria ciliata* Poir.)=*Smilacina* Desf. (1807), *nom. conserv.* (*Vagneria* Adans., 1763; *Tovaria* Neck., 1790; *Polygonastrum* Moench, 1794).
- MEDEOLA** Linn.
- **uniflora* Raf. Herb. Raf. 63. 1833, *nom.* Kentucky or Illinois.
- MELANTHIUM** Linn.
- **erythrospermum* Raf. Fl. Tellur. 2:33. 1836 [1837], *nom.* sub *Crospasma* Raf. (*Helonias erythrosperma* Michx.). South Carolina=? *Amianthium muscaetoxicum* (Walt.) A. Gray.
- **gramineum* Raf. Herb. Raf. 70. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
- **longifolium* Raf. Atl. Jour. 1:18. 1832, *nom.* North America.
- **racemoides* Raf. Fl. Tellur. 2:32. 1836 [1837], *nom.* sub *Onixotis* Raf., *sphalm.*=*M. eucomoides* Jacq.=*Androcymbium eucomoides* (Jacq.) Willd. South Africa.
- ***MELANOMPHALE** Raf. Fl. Tellur. 2:21. 1836 [1837], *nom.* sub *Melomphis* Raf. [*Melanomphale* Reneaulme, Spec. Hist. Pl. 89. 1611]=seq.
- MELOMPHIS** Raf. Fl. Tellur. 2:21. 1836 [1837], *descr.*, *nom.* nov. *Melanomphale* Renealm. Spec. Hist. Pl. 89. 1611=*Ornithogalum* Linn.
- arabica* Raf. op. cit. 22, *descr.* (*Ornithogalum arabicum* Linn.). Arabia, Egypt, Madeira, South Africa.
- patens* Raf. op. cit. 3:59. 1836 [1837], *descr.* (*Ornithogalum corymbosum* sensu Lindl. Bot. Reg. 11: t. 906. 1825). Chile=*Ornithogalum corymbosum* Ruiz & Pavon.
- peruviana* Raf. op. cit. 2:22. 1836 [1837], *descr.* (*Ornithogalum corymbosum* Ruiz & Pavon Fl. Peruv. 3:68. t. 300. 1802; Lindl. Bot. Reg. 11: t. 906. 1825; Hook. Bot. Mag. 59: t. 3179. 1832). Peru, Chile.
- sicula* Raf. l.c., *descr.* (*Ornithogalum arabicum* sensu DC.). Sicily=*Ornithogalum thyrsoides* Jacq.
- MELORIMA** Raf. Fl. Tellur. 4:53. 1836 [1838], *descr.*=*Fritillaria* Linn.
- cirrhusa* Raf. l.c., *descr.* (*Fritillaria cirrhosa* D. Don; *Imperialis leucantha* Fisch.). Altai Mountains.
- NARTHECIUM** Huds. (1762), *nom. conserv.* (*Abama* Adans., 1763).
- scabrum* Raf. Précis Découv. Somiol. 45. 1814, *descr.*; Jour. Bot. (Desv.) 4:273. 1814, *descr.* Virginia.
- NEMAMPSIS** Raf. Fl. Tellur. 4:16. 1836 [1838], *descr.*=*Dracaena* Linn. (*Pleomele* Salisb., 1796).
- ternifolia* Raf. l.c., *descr.* (*Dracaena surculosa* Linn.; Lindl. Bot. Reg. 14: t. 1169. 1828). East Africa (*Pleomele surculosa* N. E. Br.).
- NEMAULAX** Raf. Fl. Tellur. 3:52. 1836 [1837], *descr.*=*Albuca* Linn.
- fastigiata* Raf. l.c., *descr.* (*Albuca fastigiata* Dryand.; Ker-Gawl. Bot. Reg. 4: t. 277. 1818). South Africa.
- NEMEXIA** Raf. Neogen. 3. 1825, *descr.*; Med. Fl. 2:264. 1830, *nom.*, *nota*=*Smilax* Linn.
- cerulea* Raf. Neogen. 3. 1825, *nom.* (*Smilax herbacea* Linn.). Eastern North America.
- nigra* Raf. l.c., *nom.* (*Smilax peduncularis* Muhl.). Eastern North America=*S. herbacea* Linn.
- ***NEMEXIS** Raf. Aut. Bot. 125, *nom.*, 130, *descr.*, 1840=*Nemexia* Raf. (1825)=*Smilax* Linn.
- **cerulea* Raf. op. cit. 131, *descr.* (*Smilax peduncularis* Muhl.). Eastern North America=*Smilax herbacea* Linn.
- var. *oblongata* Raf. l.c., *descr.* Alleghany Mountains.
- **elliptica* Raf. l.c., *descr.* Alabama=? *Smilax hugeri* (Small) J. B. S. Norton; see Fernald, *Rhodora* 46:36. 1944.
- **glaucia* Raf. l.c., *descr.* Florida.
- **nigra* Raf. op. cit. 130, *descr.* (*Smilax herbacea* Linn.). Eastern North America=*Smilax herbacea* Linn.
- NEMOPOGON** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.*=*Bulbine* Linn.
- glauca* Raf. l.c., *descr.* (*Anthericum semibarbatum* sensu Lodd. Bot. Cab. 4: t. 330. 1819; Hook. Bot. Mag. 59: t. 3129. 1832). Tasmania=*Bulbine bulbosa* Haw.
- NICIPE** Raf. Fl. Tellur. 3:54. 1836 [1837], *descr.*=*Ornithogalum* Linn.
- nivea* Raf. l.c., *descr.* (*Ornithogalum niveum* Soland.; Ker-Gawl. Bot. Reg. 3: t. 235. 1817). South Africa.
- OBSITILA** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.* (Type *Anthericum hispidum* Linn.)=*Anthericum* Linn.
- ONCOSTEMA** Raf. Fl. Tellur. 2:13. 1836 [1837], *descr.*=*Scilla* Linn.
- villosa* Raf. Fl. Tellur. 2:13. 1836 [1837], *descr.* (*Scilla villosa* Desf. Fl. Atl. 1:299. t. 85. f. 2. 1798; Hook. Bot. Mag. 60: t. 3211. 1833). Sicily, North Africa=*Scilla villosa* Desf.
- ONIXOTIS** Raf. Fl. Tellur. 2:32. 1836 [1837], *descr.*=*Dipidax* Laws. ex Salisb. (1812).
- ciliata* Raf. l.c., *nom.* (*Melanthium ciliatum* Linn. f.). South Africa=*Dipidax ciliata* (Linn.) Baker.
- secunda* Raf. l.c., *nom.* (*Melanthium secundum* Desr.). South Africa=*Dipidax ciliata* (Linn.) Baker.
- viridis* Raf. l.c., *descr.* (*Melanthium "racemoides" sphalm.*=*M. eucomoides* Jacq. l.c. Rar. 2:22. t. 452. 1786-93; Sims, Bot. Mag. 17: t. 641. 1803). South Africa=*Androcymbium eucomoides* (Jacq.) Willd.
- #**ONYXULA** Raf. New Fl. N. Am. 2:78. 1836 [1837], *descr.*, ut subgen. *Clintonia* Raf.; Life of Travels 60. 1836, *nom.*; Fl. Tellur. 4:17. 1836 [1838], *nom.*, ut subgen. *Clintonia* Raf.=*Clintonia* Raf.
- #**OPLAX** Raf. Aut. Bot. 125. 1840, *descr.*, subgen. *Smilax* Linn. (Type *Smilax caduca* Linn.)=*Smilax* Linn.
- ORNITHOGALON** Raf. Fl. Tellur. 2:22. 1836 [1837]=*Ornithogalum* Linn.
- **ceruleum* Raf. op. cit. 23, *descr.* Sicily=*Ornithogalum ceruleum* Raf.=*Scilla cupani* Guss.
- ORNITHOGALUM** Linn.
- ceruleum* Raf. Car. Nuov. Gen. Sp. Sicil. 85. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.* (*Scilla cupani* Guss., 1825). Sicily=*Scilla cupani* Guss.
- pauciflorum* Raf. Précis Découv. Somiol. 44. 1814 (*Ornithogalum*), *descr.*; Jour. Bot. (Desv.) 4:272. 1814, *descr.* Sicily=O. *excapum* Ten.
- patulum* Raf. l.c., *descr.* Sicily=O. *montanum* Cirillo.
- speciosum* Raf. Car. Nuov. Gen. Sp. Sicil. 85. 1810, *nom. nov.* *Scilla peruviana* Linn. Sicily.
- ***ORNITHOGLOSON** Raf. Fl. Tellur. 2:32. 1836 [1837], *descr.*=*Ornithoglossum* Salisb. (1806).
- **viride* Raf. l.c., *nom.* (*Melanthium viride* Linn. f.). South Africa=*Ornithoglossum viride* (Linn. f.) Ait.
- ***OSMANTHES** Raf. Med. Fl. 1:38. 1828, *nom.*, *nota*, in obs., iter. Man. Med. Bot. 38. 1841 (Type *Aletris fragrans* Linn.). Africa=*Dracaena* Linn. (*Pleomele* Salisb., 1796).
- OXYTRIA** Raf. Fl. Tellur. 2:26. 1836 [1837], *descr.*=*Schoenolirion* Durand (1855), *nom. conserv.* (*Amblostima* Raf., 1837, *Oxytria* Raf., 1837).
- crocea* Raf. l.c., *descr.* (*Phalangium croceum* Michx.). Southeastern United States=*Schoenolirion "croceum"* (Michx.) Wood, Am. Bot. Flor. 345. 1870; A. Gray, Am. Nat. 10: 407. 1876.
- OZIOE** Raf. Fl. Tellur. 3:53. 1836 [1837], *descr.*=*Ornithogalum* Linn.
- leuchlora* Raf. op. cit. 54, *descr.* (*Ornithogalum chloroleucum* Lindl. Bot. Reg. 22: t. 1853. 1836). Chile=*Ornithogalum biflorum* D. Don.
- #**PALTRIMA** Raf. New Fl. N. Am. 1:35. 1836, *descr.*, subgen. *Tofieldia* Huds. (Types *Tofieldia palustris* Huds., *T. borealis* Wahl.).
- PANSTENUM** Raf. Fl. Tellur. 2:20. 1836 [1837], *descr.*=*Allium* Linn.
- monspessulanum* Raf. op. cit. 21, *descr.* (*Allium monspessulanum* Gouan, Illustr. Bot. t. 16. 1773). Europe=*Allium nigrum* Linn.
- ***PAPILISTA** Raf. Aut. Bot. 137. 1840, *nom.*, sub *Tulista* Raf. (Type *Aloe verrucosa* Mill.)=*Gasteria* Duval (1809).
- ***PARILAX** Raf. Aut. Bot. 125, 129. 1840, *nom.*=seq.
- **laurifolia* Raf. l.c., *descr.* (*Smilax laurifolia* Linn.). Virginia to Louisiana=*Smilax laurifolia* Linn.
- **pumila* Raf. op. cit. 130, *descr.* (*Smilax pumila* Walt.; *S. pubera* Michx.). Southeastern United States=*Smilax pumila* Walt.
- PARILLAX** Raf. Neogen. 3. 1825, *descr.*; Med. Fl. 2:264. 1830, *nom.*; Aut. Bot. 130. 1840, *nom.* sub *Aniketon* Raf.=*Smilax* Linn.

- laurifolia* Raf. ex Jacks*. Ind. Kew. 2:426. 1894 (*Smilax laurifolia* Linn.). Southeastern United States.
- pumila* Raf. ex Jacks*. l.c. (*Smilax pumila* Walt.). Southeastern United States.
- PELOTRIS** Raf. Aut. Bot. 125. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Muscari* Mill. (1752).
- paniculatus* Raf. l.c., *nom.* (*Hyacinthus paniculatus* Lam.); Pennell, l.c., *nom.* Italy=*Muscari comosum* Mill.
- PENTILIUM** Raf. Herb. Raf. 52. 1833, *nom. subnud.* Quid? *acuminatum* Raf. l.c., *nom.* Rocky Mountains or Oregon.
- PHALANGIUM** Adans. (1763)=*Anthericum* sensu Raf.=*Urginea* Steinh. (1834).
- **physodes* Raf. Fl. Tellur. 2:27. 1836 [1837], *nom.* (*Anthericum physodes* Jacq.). South Africa=*Urginea physodes* (Jacq.) Baker.
- **pusillum* Raf. l.c., *nom.* (*Anthericum pusillum* Jacq.). South Africa=*Urginea pusilla* (Jacq.) Baker.
- #**PHYLLANTHERUM** Raf. Jour. Phys. Chim. Hist. Nat. 91:72. 1820, *descr.* subgen. *Trillium* Linn.; Ann. Gén. Sci. Phys. 7:19. 1820, *descr.* subgen. *Trillium* Linn. (Type *Trillium erectum* Linn.)=*Trillium* Linn.
- PILASIA** Raf. Fl. Tellur. 3:53. 1836 [1837], *descr.*=*Urginea* Steinh. (1834).
- filifolia* Raf. l.c., *descr.* (*Anthericum filifolium* Jacq.; *Albuca filifolia* Ker-Gawl. Bot. Reg. 7: t. 557. 1821). South Africa=*Urginea filifolia* (Jacq.) Steinh.
- PLEISOLIRION** Raf. Fl. Tellur. 2:28. 1836 [1837], *descr. nom. nov.* *Liliastrium* Link (1829)=*Paradisea* Mazzuc. (1814).
- liliastrium* Raf. l.c., *nom.* (*Anthericum liliastrium* Linn.; *Phalangium liliastrium* Brot.); Aut. Bot. 57. 1840, *nom.* Italy=*Paradisea liliastrium* (Linn.) Bertol.
- PLEXINIUM** Raf. Fl. Tellur. 2:32. 1836 [1837], *descr.*=*Androcymbium* Willd. (1808).
- punctatum* Raf. l.c., *descr.* (*Melanthium capense* Linn.; *M. monopetalum* Linn. f.). South Africa=*Androcymbium capense* (Linn.) Druce (*A. leucanthum* Willd.).
- PLEXISTENA** Raf. Fl. Tellur. 2:20. 1836 [1837], *descr.*=*Allium* Linn.
- margaritica* Raf. l.c., *descr.* (*Allium margaritaceum* Sibth. & Sm.). Greece.
- #**PODANISIA** Raf. New Fl. N. Am. 2:78. 1836 [1837], *nom. alt.* *Cuscutia* Raf., ut subgen. *Clintonia* Raf.=*Clintonia* Raf.
- PODONTIX** Raf. Fl. Tellur. 4:28. 1836 [1838], *descr.*=*Tulipa* Linn.
- albiflora* Raf. l.c., *descr.* (*Tulipa biflora* Pallas; Ker-Gawl. Bot. Reg. 7: t. 535. 1821). Caucasus region.
- PRASKOINON** Raf. Fl. Tellur. 4:29. 1836 [1838], *descr.*=*Allium* Linn.
- longifolium* Raf. l.c., *descr.* (*Allium longifolium* Spreng.; Lindl. Bot. Reg. 12: t. 1034. 1827; *Schoenoprasum longifolium* H.B.K.). Mexico.
- PROTANTHERA** Raf. Med. Repos. II. 3:422. 1806, *nom.* Quid?
- phalangioides* Raf. l.c., *nom.* Central Atlantic United States.
- tenuis* Raf. l.c., *nom.* Central Atlantic United States.
- PUBILARIA** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.* sub *Obsitila* Raf.=*Simethis* Kunth (1843), *nom. conserv.* (*Pubilaria* Raf., 1837).
- bicolor* Raf. l.c., *nom.* (*Phalangium bicolor* DC.). Mediterranean region=*Simethis bicolor* (Desf.) Kunth.
- QUAMASIA** Raf. Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.*; op. cit. 4:189. 1819, *nom.*; Fl. Tellur. 2:25. 1836 [1837], *descr.*; op. cit. 3:51. 1836 [1837], *descr.* (*Camassia* Lindl.)=*Camassia* Lindl. (1832), *nom. conserv.* (*Quamasia* Raf., 1818, *Cyanotris* Raf., 1818).
- esculenta* Raf. Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.* (*Phalangium quamash* Pursh; *Scilla esculenta* Nutt.); Med. Fl. 2:255. 1830, *nom.*, *nota*; Fl. Tellur. 2:26. 1836 [1837], *nom.* (*Phalangium esculentum* Nutt.; *Scilla esculenta* Ker-Gawl. Bot. Mag. 37: t. 1594. 1813); Fl. Tellur. 3:51. 1836 [1837], *descr.*, *excl. cit.* Lindl. Bot. Reg. 18: t. 1486. 1832. Kentucky, p.p.=*Camassia scilloides* (Raf.) Cory, p.p.=*Camassia quamash* (Pursh) Greene; see Gould, Am. Midl. Nat. 28:725. 1942.
- scilloides* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* (*Phalangium quamash* Pursh)=*praec.*
- var. *alba* Raf. l.c., *nom.* Kentucky.
- QUAMASSIA** Raf. ex Jacks*. Ind. Kew. 2:670. 1895=*Quamasia* Raf. (1818)=*Camassia* Lindl. (1832), *nom. conserv.*
- QUELTIA** Salisb.; Raf. Fl. Tellur. 4:123. 1836 [1838], *descr.*=*Narcissus* Linn.
- montana* Raf. l.c., *descr.* (*Narcissus poculiformis* Salisb. (*sphalm.* Raf. "*poculigera*"); *N. montanus* Ker-Gawl. Bot. Reg. 2: t. 123. 1816). Pyrenees Mountains=*N. poculiformis* Salisb.
- RACEMARIA** Raf. Atl. Jour. 1:151. 1832, *nom. nov. provis.* (*Convallaria ciliata* Poir.)=*Smilacina* Desf. (1807), *nom. conserv.* (*Vagnera* Adans., 1763; *Tovaria* Neck., 1790; *Polygonastrum* Moench, 1794).
- REGGERIA** Raf. Aut. Bot. 55. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*=*Gagea* Salisb. (1806).
- bohémica* Raf. l.c., *descr.* (*Ornithogalum bohemicum* Zauchn.); Pennell, l.c., *nom.* Bohemia=*Gagea pygmaea* Salisb.
- **rupestris* Raf. l.c., *nom. alt.* *Reggeria bohémica* Raf.=*Gagea pygmaea* Salisb.
- RUSCUS** Linn.
- anthopus* Raf. Fl. Tellur. 4:26. 1836 [1838], *descr.* (*Ruscus androgynus* sensu Sims Bot. Mag. 44: t. 1898. 1817). Canary Islands=*Semele androgyna* (Linn.) Kunth.
- latifolius* Raf. l.c., *descr.* (*Ruscus androgynus* sensu Willd.; Hook. Bot. Mag. 57: t. 3029. 1830). Madeira=*Semele androgyna* (Linn.) Kunth.
- ***SABADILLA** Raf. Fl. Tellur. 2:30. 1836 [1837], *nom.*=*Sabadilla* Brandt & Ratzeb. (1837)=*Schoenocaulon* A. Gray (1837).
- **officinalis* Raf. l.c., *descr.* (*Veratrum sabadilla* Retz.). Mexico=*Sabadilla officinarum* Brandt & Ratzeb. (*S. officinalis* Standl., 1925)=*Schoenocaulon officinale* (Retz.) A. Gray.
- ***SANSEVERIA** Raf. Aut. Bot. 63. 1840, *nom.*=*Sansevieria* Thunb. (1794), *nom. conserv.* (*Acynthis* Medic., 1786).
- **carnea* Raf. Aut. Bot. 63. 1840, *descr.* "African?" [China]=*Sansevieria carnea* Andr.=*Reineckia carnea* (Andr.) Kunth.
- SCADUAKINTOS** Raf. Fl. Tellur. 4:23. 1836 [1838], *descr.*=*Brodiaea* Sm. (1811), *nom. conserv.* (*Hookera* Salisb., 1808).
- umbellaris* Raf. op. cit. 24, *descr.* (*Brodiaea grandiflora* Pursh, non Sm.). Northwestern and Western United States=*Brodiaea lactea* (Lindl.) S. Wats. (*Hesperoscordum lacteum* Lindl.).
- SCILLA** Linn.; see also *Skilla* Raf.
- **amena* Raf. First Cat. Bot. Gard. Transylv. Univ. 23. 1824, *nom.*=*Scilla amoena* Linn. Europe.
- fistulosa* Raf. Précis Découv. Somiol. 45. 1814, *descr.*; Jour. Bot. (Desv.) 4:272. 1814, *descr.* Sicily.
- #**SESSILIUM** Raf. Med. Fl. 2:97. 1830, *descr.*, subgen. *Trillium* Linn.; Aut. Bot. 132. 1840, *nom.* (Type *Trillium sessile* Linn.).
- ***SIGILARIA** Raf. Atl. Jour. 1:151. 1832, *nom.*=*seq.*
- †**SIGILLARIA** Raf. Am. Monthly Mag. Crit. Rev. 3:100. 1818, *nom. nov.* *Smilacina* Desf.; op. cit. 4:189, 192, 357. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *nom.*; Med. Fl. 2:83. f. 85. 1830, *descr.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 70. 1832, *iter.* Britten, Jour. Bot. 38:226. 1900; Fl. Tellur. 4:18. 1836 [1838], *nom.* quoad syn. Desv.=*Smilacina* Desf. (1807), *nom. conserv.*, et *Polygonatum* Mill. (1754), quoad spp. var.
- **angustifolia* Raf. Aut. Bot. 68. 1840, *descr.* Alabama.
- **biflora* Raf. Med. Fl. 2:85. 1830, *nom.* [*Convallaria biflora* Walt.]; Aut. Bot. 68. 1840, *descr.* Pennsylvania, Kentucky=*Polygonatum biflorum* (Walt.) Ell.
- **canaliculata* Raf. Aut. Bot. l.c., *nom.* (*Convallaria canaliculata* Willd.). Alleghany Mountains=*Polygonatum biflorum* (Walt.) Ell.
- ciliata* Raf. Atl. Jour. 1:151. 1832, *descr.* (*Sigilaria*) Islands of the St. Lawrence River near Lake Ontario=*Polygonatum biflorum* (Walt.) Ell.
- **elliptica* Raf. Aut. Bot. 68. 1840, *descr.* Alleghany Mountains.
- **hirta* Raf. op. cit. 67, *nom.* (*Convallaria hirta* Bosc). Alleghany Mountains=*Polygonatum biflorum* (Walt.) Ell.
- **latifolia* Raf. Med. Fl. 2:85. 1830, *nom.*
- †*multiflora* Raf. Casket 1828:43. 1 f. 1828, *descr.*; Sat. Eve. Post 7 (338):[4]. 1 f. 1828, *descr.*; Med. Fl. 2:84. f. 85. 1830, *descr.* Eastern North America=*Polygonatum commutatum* A. Dietr.
- **pubescens* Raf. Med. Fl. 2:85. 1830, *nom.* [*Convallaria pubescens* Willd.]. Eastern North America=*Polygonatum biflorum* (Walt.) Ell.

- SIMIRA** Raf. Fl. Tellur. 4:28. 1836 [1838], *descr.*=*Scilla* Linn.
japonica Raf. l.c., *descr.* (*Ornithogalum japonicum* Thunb.). Japan=*Scilla japonica* Baker, non *Scilla japonica* Thunb. =*Scilla thunbergii* Miyabe & Kudo (1921)=*Scilla sinensis* (Lour.) Merr.
- SIPHYALIS** Raf. Fl. Tellur. 4:17. 1836 [1838], *descr.*; Aut. Bot. 67. 1840, *nom.*=*Polygonatum* Mill. (1754).
nitida Raf. l.c., *descr.* (*Convallaria oppositifolia* Wall.; Lodd. Bot. Cab. 7: t. 640. 1822; Hook. Exot. Fl. 2: t. 125. 1825; Hook. Bot. Mag. 63: t. 3529. 1836). India=*Polygonatum oppositifolium* (Wall.) Royle.
- SIRAITOS** Raf. Fl. Tellur. 4:26. 1836 [1838], *descr.*=*Chionographis* Maxim. (1867).
aquaticus Raf. op. cit. 27, *descr.* (*Melanthium luteum* Thunb. [non *Veratrum luteum* Linn.]); New Fl. N. Am. 4:103. 1836 [1838], *nom.*, *nota.* Japan=*Chionographis japonica* (Willd.) Max.
- SKILLA** Raf. Fl. Tellur. 1:18. 74. 1836 [1837], *nom. nov.* *Scilla* Linn.; op. cit. 2:13. 1836 [1837], *nom.*, *nota.*; op. cit. 3:61. 1836 [1837], *nom.*; Aut. Bot. 56. 1840, *nom.*=*Scilla* Linn.
**amena* Raf. Aut. Bot. 56. 1840, *nom.* (*Scilla amoena* Linn.). Southern Europe.
**autumnalis* Raf. l.c., *nom.* (*Scilla autumnalis* Linn.). Mediterranean region.
**esculenta* Raf. Fl. Tellur. 3:51. 1836 [1837], *nom.*; Aut. Bot. 57. 1840, *nom.* [*Scilla esculenta* Ker-Gawl.]. Eastern North America=*Camassia esculenta* (Ker-Gawl.) Robinson=*Camassia scilloides* (Raf.) Cory.
**filiformis* Raf. l.c., *descr.* (*Ornithogalum rupestre* auct.) South Africa=? *Ornithogalum rupestre* Linn. f.
**fistulosa* Raf. Fl. Tellur. 3:61. 1836 [1837], *descr.* (*Scilla fistulosa* Raf.). Sicily=*Scilla cupani* Guss.
**maritima* Raf. op. cit. 2:13. 1836 [1837], *nom.* (*Scilla maritima* Linn.). Mediterranean region=*Urginea maritima* (Linn.) Baker.
**mixta* Raf. Aut. Bot. 56. 1840, *descr.* Island of Angelsey.
**plumbea* Raf. Fl. Tellur. 3:51. 1836 [1837], *nom.* South Africa=*Scilla plumbea* Lindl.
**pumila* Raf. op. cit. 2:59. 1836 [1837], *nom. sub Tractema pumila* Raf. Iberian Peninsula=*Scilla pumila* Brot.=*S. monophyllos* Link.
- SKIZIMA** Raf. Fl. Tellur. 2:32. 1836 [1837], *descr.*=*Astelia* Banks & Soland. (1810), *nom. conserv.* (*Funckia* Willd., 1808).
pumila Raf. l.c., *descr.* (*Melanthium pumilum* Forst.). Tierra del Fuego=*Astelia pumila* (Forst.) R. Br.
- SKOINOLON** Raf. Fl. Tellur. 4:27. 1836 [1838], *nom. nov.* *Schoenocaulon* A. Gray.
- SMILAX** Linn.
**compressa* Raf. Aut. Bot. 128. 1840, *descr.* Alabama.
**cynanchifolia* Raf. op. cit. 129, *descr.* Siberia?
**deltifolia* Raf. op. cit. 127, *descr.* Alleghany and Wasioto Mountains. An *Smilax caduca* Linn. fide Raf. l.c.=*S. rotundifolia* Linn.
var. compressa Raf. l.c., *descr.* Wasioto Mountains.
**dentata* Raf. op. cit. 128 *nom.*, *sphalm.*=*Smilax hastata* Jacq., fide Raf. op. cit. 138. Santo Domingo.
**dichotoma* Raf. op. cit. 126, *descr.*, *nom. nov.* *Smilax caduca* Linn. Canada to Carolina=*S. rotundifolia* Linn.
**dilatata* Raf. op. cit. 128, *descr.* Alabama.
**farinosa* Raf. op. cit. 129, *nom. nov.* *Smilax pseudochina* Linn. Carolina to Florida.
**fragrans* Raf. Med. Fl. 2:264. 1830, *nom.* Hab.?
**heterophylla* Raf. Aut. Bot. 128. 1840, *descr.* Florida.
heterophylla Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:226. 1809, *descr.* Delaware, Maryland.
**hispida* Raf. Aut. Bot. 125. 1840, *descr.* Western Kentucky.
**lomoplis* Raf. op. cit. 128, *descr.* (*Smilax hastata* Willd., non Jacq.). Carolina to Florida=*Smilax bonanox* Linn.
**membranacea* Raf. op. cit. 129, *descr.* Alabama.
**muricata* Raf. op. cit. 127, *descr.* Florida.
**pandurata* Raf. op. cit. 127, *descr.* Southern New Jersey =*S. tamnifolia* Michx.
**platoplis* Raf. op. cit. 126, *descr.* Pennsylvania to Kentucky and Carolina.
**reniformis* Raf. l.c., *descr.* New Jersey to Kentucky.
**rhombofolia* Raf. Aut. Bot. 129. 1840, *descr.* Siberia?
- SPIRANTHERA** Raf. Fl. Tellur. 4:31. 1836 [1838], *descr.*=*Eustrephus* R. Br. (1810).
ovata Raf. l.c., *descr.* (*Eustrephus latifolius* R. Br.). Australia.
- STEMMESUS** Raf. Fl. Tellur. 2:19. 1836 [1837], *descr.*=*Allium* Linn.
stellatus Raf. l.c., *descr.* (*Allium stellatum* Fraser; Ker-Gawl. Bot. Mag. 38: t. 1576. 1813); Aut. Bot. 62. 1840, *nom.* Alabama, Florida.
- STEMODOXIS** Raf. Fl. Tellur. 2:20. 1836 [1837], *descr.*=*Allium* Linn.
junceum Raf. l.c., *descr.* (*Allium junceum* Sibth. & Sm.). Crete.
- STREPSIPHYLA** Raf. Fl. Tellur. 3:60. 1836 [1837], *descr.*=*Drimia* Jacq. (1786).
undulata Raf. l.c., *descr.* (*Drimia undulata* Jacq.). South Africa=*Scilla undulata* (Jacq.) Baker.
villosa Raf. l.c., *descr.* (*Drimia villosa* Lindl. Bot. Reg. 16: t. 1346. 1830). South Africa.
- STREPTOPUS** Michx.
undulatus Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.
- STYRANDRA** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom.* (*Smilacina canadensis* Pursh); op. cit. 4:189. 357. 1819, *nom.* (*Convallaria bifolia* Linn.); Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.* (*Convallaria bifolia* Linn.; *C. canadensis* Poir.); Med. Fl. 2:84. 1830, *descr.*; op. cit. 2: 266. 1830, *nom.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, *iter.* Britten, Jour. Bot. 38:226. 1900; New Fl. N. Am. 1:17. 1836, *nom.*, *nota.*; Fl. Tellur. 4:18. 1836 [1838], *descr.*=*Maianthemum* Webber ex Wigg. (1780), *nom. conserv.* (*Unifolium* Zinn, 1757).
**amplexicaulis* Raf. Aut. Bot. 68. 1840, *descr.* (*Convallaria bifolia* auct. Am.). Canada and the Alleghany Mountains=*Maianthemum canadense* Desf. (*Unifolium canadense* Greene).
†bifolia Raf. Casket 1827:114. f. 11. 1827, *descr.* (*Convallaria bifolia* auct. Am.); Sat. Eve. Post 6(295):[4]. 1 f. 1827, *descr.*; Med. Fl. 2:84. 1830, *nom.* Eastern North America=*Maianthemum canadense* Desf.
**petiolaris* Raf. Aut. Bot. 68. 1840, *descr.* (*Convallaria bifolia* Linn.). Europe, Siberia=*Maianthemum bifolium* (Linn.) F. W. Schmidt.
- SUCCOSARIA** Raf. Aut. Bot. 137. 1840, *nom.* (Type *Aloe spicata* Linn. f.)=*Aloe* Linn.
- SYNCODIUM** Raf. Fl. Tellur. 2:22. 1836 [1837], *descr.*=*Myogalum* Link (1829)=*Ornithogalum* Linn.
nutans Raf. l.c., *descr.* (*Ornithogalum nutans* Linn.); Aut. Bot. 56. 1840, *nom.* Europe.
- TENICROA** Raf. Fl. Tellur. 3:52. 1836 [1837], *descr.*=*Urginea* Steinh. (1834).
fragrans Raf. op. cit. 53, *descr.* (*Anthericum fragrans* Jacq.; *Albica fugax* Ker-Gawl. Bot. Reg. 4: t. 311. 1818). South Africa=*Urginea fragrans* (Jacq.) Steinh.
- †TILCUSTA* Raf. Fl. Tellur. 1:16. 1836 [1837], *nom.*; op. cit. 4:15. 1836 [1838], *descr.*=*Tupistra* Ker-Gawl. (1814).
nepalensis Raf. Fl. Tellur. 4:15. 1836 [1838], *descr.* Nepal=?
Tupistra aurantiaca Wall. (*Campylandra aurantiaca* Baker).
- TOFIELDIA** Huds.
**capitata* Raf. Aut. Bot. 65. 1840, *descr.* Labrador=*Tofieldia palustris* auct. plur., non Huds.=*T. pusilla* (Michx.) Pers.; see Stearn, Jour. Linn. Soc. Bot. 53:202. 1947.
- TOMOXIS** Raf. Fl. Tellur. 3:54. 1836 [1837], *descr.*=*Ornithogalum* Linn.
coarctata Raf. l.c., *descr.* (*Ornithogalum coarctatum* Jacq. Ic. Pl. Rar. 2:20. t. 435. 1786-93). South Africa.
odorata Raf. l.c., *descr.* (*Ornithogalum odoratum* Jacq. Ic. Pl. Rar. 2:20. t. 432. 1786-93; Andr. Bot. Repos. 4: t. 260. 1802). South Africa=*O. suaveolens* Jacq.
virens Raf. l.c., *descr.* (*Ornithogalum virens* Lindl. Bot. Reg. 10: t. 814. 1824). South Africa.
- TRACHINEMA** Raf. Fl. Tellur. 2:27. 1836 [1837], *descr.*=*Anthericum* Linn.
hispida Raf. l.c., *nom.* (*Anthericum hispidum* Linn.). South Africa.
vespertina Raf. l.c., *nom.* (*Phalangium vespertinum* Poir.). South Africa=*Anthericum falcatum* Linn. f.
- TRACTEMA** Raf. Fl. Tellur. 2:58. 1836 [1837], *descr.*=*Scilla* Linn.
pumila Raf. op. cit. 59, *descr.* (*Scilla pumila* Brotero; Hook. Bot. Mag. 57: t. 3023. 1830). Portugal=*S. monophyllos* Link.
- #TRAXORDUM* Raf. Aut. Bot. 59. 1840, *nom.*, *subgen.* *Ag-litheis* Raf. (Type *Allium tricoccum* Ait.)=*Allium* Linn.

TRIALLOSIA Raf. Fl. Tellur. 3:60. 1836 [1837], *descr.* = *Lachenalia* Jacq. (1787).
pallida Raf. l.c., *descr.* (*Lachenalia pallida* Ait.; Lindl. Bot. Reg. 16: t. 1350. 1830). South Africa.
***TRICHOPETALON** Raf. Fl. Tellur. 3:57. 1836 [1837], *nom.* = *Trichopetalum* Lindl. (1832) (*Bottionea* Colla, 1834).
**gracile* Raf. l.c., *nom.* (*Trichopetalum gracile* Lindl.). Chile (*Bottionea thysantoides* Colla) = *Trichopetalum gracile* Lindl.
**stellatum* Raf. l.c., *nom.* (*Trichopetalum stellatum* Lindl. [*Anthericum ? plumosum* Hook. Bot. Mag. 58: t. 3084. 1831]). Chile = *praec.*
TRILLIUM Linn.
acuminatum Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:230. 1809, *descr.*; Med. Fl. 2:99. 1830, *descr.*; Aut. Bot. 133. 1840, *descr.* Appalachian Mountains, Pennsylvania, Alabama = *T. erectum* Linn.
amblopsioides Raf. Med. Fl. 2:99. 1830, *descr.*; Aut. Bot. l.c., *descr.* Alleghany Mountains.
var. *angustifolium* Raf. Med. Fl. l.c., *nom.*
cuneatum Raf. l.c., *descr.*
incarnatum Raf. l.c., *nom.*
longifolium Raf. l.c., *nom.*
pumilum Raf. l.c., *nom.*
stenopetalum Raf. l.c., *nom.*
undulatum Raf. l.c., *nom.*
angustifolium Raf. Med. Fl. 2:98. 1830, *descr.*; Aut. Bot. 132. 1840, *nom.* Kentucky.
var. *gracile* Raf. Med. Fl. l.c., *nom.*
maculatum Raf. l.c., *nom.*
roseum Raf. l.c., *nom.*
stenopetalum Raf. l.c., *nom.*
**atropurpureum* Raf. Aut. Bot. 134. 1840, *descr.* Alleghany Mountains.
**balduinianum* Raf. op. cit. 135, *descr.* Georgia, Florida. Prob. = *T. nervosum* Ell.
**brevipes* Raf. op. cit. 134, *descr.* Alabama.
brevipetalum Raf. Med. Fl. 2:100. 1830, *descr.*; Aut. Bot. 134. 1840, *descr.* Near Lakes Ontario and Erie.
var. *latifolium* Raf. Med. Fl. l.c., *nom.*
roseum Raf. l.c., *nom.*
catesbaei Ell.; Raf. Med. Fl. 2:101. 1830, *descr.* Carolina.
var. *incarnatum* Raf. l.c., *nom.*
obovatum Raf. l.c., *nom.*
**cuneatum* Raf. Aut. Bot. 133. 1840, *descr.* Unaka Mountains. North Carolina (*T. hugeri* Small, 1903).
**declinatum* Raf. op. cit. 135, *descr.* Alabama, Florida. Prob. = *T. nervosum* Ell.
divaricatum Raf. Med. Fl. 2:102. 1830, *descr.* Alleghany and Cumberland Mountains.
flavum Raf. op. cit. 100, *descr.*; Aut. Bot. 133. 1840, *descr.* New York to Virginia = *T. erectum* Linn.
**flexipes* Raf. Aut. Bot. 133. 1840, *descr.* Western Kentucky and Tennessee (*T. erectum* Linn. var. *declinatum* A. Gray, 1867; *T. declinatum* Gleason, 1906; *T. gleasoni* Fernald, 1932); see Fernald, *Rhodora* 46:16. 1944.
glaucum Raf. Med. Fl. 2:102. 1830, *descr.*; Aut. Bot. 135. 1840, *nom.* Pennsylvania to Alabama = *T. cernuum* Linn.
grandiflorum Salisb.; Raf. Med. Fl. 2:100. 1830, *descr.* Lake Ontario to Virginia and Kentucky.
var. *elator* Raf. l.c., *nom.*
longifolium Raf. l.c., *nom.*
macropium Raf. l.c., *nom.*
obovatum Raf. l.c., *nom.*
parviflorum Raf. l.c., *nom.*
pumilum Raf. l.c., *nom.*
rhomboideum Raf. l.c., *nom.*
roseum Raf. l.c., *nom.*; Aut. Bot. 134. 1840, *descr.* Kentucky.
hamosum Raf. Med. Fl. 2:101. 1830, *descr.*; Aut. Bot. 135. 1840, *nom.* Pennsylvania (Pocono and Tuscarora Mountains) = *T. cernuum* Linn.
isanthum Raf. op. cit. 98, *descr.*; Aut. Bot. 132. 1840, *nom.* Ohio, Kentucky, Arkansas = *T. sessile* Linn.
var. *albiflorum* Raf. Med. Fl. l.c., *nom.*
parviflorum Raf. l.c., *nom.* Kentucky.
**lanceifolium* Raf. Aut. Bot. 132. 1840, *descr.* Appalachian Mountains, and Alabama to Florida (*T. lanceolatum* Boykin, 1879; *T. recurvatum* Beck, var. ? *lanceolatum* S. Wats., 1879).
latifolium Raf. Med. Fl. 2:97, 101, f. 91. 1830, *descr.*; Aut. Bot. 135. 1840, *nom.* Kentucky = *T. cernuum* Linn.

**lirioides* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*; First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Med. Fl. 2:100. 1830, *descr.*; Aut. Bot. 134. 1840, *nom.*, *nota.* Ohio, Illinois = *T. grandiflorum* (Michx.) Salisb.
var. *crassicaule* Raf. Med. Fl. 2:101. 1830, *nom.*
longifolium Raf. l.c., *nom.*
maculatum Raf. l.c., *nom.*
parviflorum Raf. l.c., *nom.*
pumilum Raf. l.c., *sphalm.* "*pumitum*," *nom.*
roseum Raf. l.c., *nom.*
undulatum Raf. l.c., *nom.*
longiflorum Raf. Med. Fl. 2:97. 1830, *descr.*; Casket 1832:3. 1832, *nom.*; Sat. Eve. Post 12(571):[4]. 1832, *nom.*; Aut. Bot. 132. 1840, *nom.* Lake Ontario to Alabama = *T. sessile* Linn.
var. *atropurpureum* Raf. Med. Fl. l.c., *nom.*
latifolium Raf. l.c., *nom.*
maculatum Raf. l.c., *nom.*
parvifolium Raf. l.c., *nom.*
pumilum Raf. l.c., *nom.*
rubricaule Raf. l.c., *nom.*
undulatum Raf. l.c., *nom.*
maculatum Raf. Med. Fl. 2:103. 1830, *descr.*; Aut. Bot. l.c., *nom.* Illinois to Florida (*T. underwoodii* Small, 1897).
medium Raf. Med. Fl. op. cit. 102, *descr.*; Casket 1832:3. 1832, *nom.*; Sat. Eve. Post 12(571):[4]. 1832, *nom.*; Aut. Bot. 135. 1840, *nom.* (*Trillium cernuum* auctt.). New England to Virginia = *T. cernuum* Linn.
var. *gracile* Raf. Med. Fl. l.c., *nom.*
grandiflorum Raf. l.c., *nom.*
pudicum Raf. l.c., *nom.*
undulatum Raf. l.c., *nom.*
membranaceum Raf. Med. Fl. 2:98. 1830, *descr.*; Aut. Bot. 132. 1840, *nom.* Ohio, Kentucky. Illinois and Missouri = *T. sessile* Linn.
var. *ellipticum* Raf. Med. Fl. l.c., *nom.*
obovatum Raf. l.c., *nom.*
parvifolium Raf. l.c., *nom.*
nutans Raf. Med. Fl. 2:99. 1830, *descr.*; Casket 1832:3. 1832, *nom.*; Sat. Eve. Post 12(571):[4]. 1832, *nom.*; Aut. Bot. 133. 1840, *descr.* (*Trillium erectum* auctt.) Canada to Carolina = *Trillium erectum* Linn.
var. *album* Raf. Med. Fl. l.c., *nom.*
atropurpureum Raf. l.c., *nom.*
bicolor Raf. l.c., *nom.*
flexuosum Raf. l.c., *nom.*
obovatum Raf. l.c., *nom.*
rhomboideum Raf. l.c., *nom.*
undulatum Raf. l.c., *nom.*
obcordatum Raf. Med. Fl. 2:101. 1830, *descr.*; Aut. Bot. 135. 1840, *nom.* Alleghany Mountains.
pictum Pursh; Raf. Med. Fl. 2:99. 1830, *descr.*; Casket 1832:3. 1832, *nom.*; Sat. Eve. Post 12(571):[4]. 1832, *nom.* Canada to Carolina.
var. *roseum* Raf. Med. Fl. l.c., *nom.*
undulatum Raf. l.c., *nom.*
**pumilum* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States. An *T. pumilum* Michx. (1803)?
recurvatum Beck; Raf. Med. Fl. 2:98. 1830, *descr.* Kentucky to Missouri.
var. *obovatum* Raf. l.c., *nom.*
maculatum Raf. l.c., *nom.*
sessilifolium Raf. l.c., *nom.*
undulatum Raf. l.c., *nom.*
**reflexum* Raf. Western Minerva 41. 1821, *nom.*, *nota*, *iter.* Fox, Science II. 12:213. 1900; First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* Kentucky.
**revolutum* Raf. l.c., *nom.*, *iter.* Fox, l.c. Kentucky.
**rhombifolium* Raf. Aut. Bot. 133. 1840, *descr.* Wasioto Mountains.
rotundifolium Raf. Med. Fl. 2:97. 1830, *descr.*; Casket 1832:3. 1832, *nom.*; Sat. Eve. Post 12(571):[4]. 1832, *nom.*; Aut. Bot. 132. 1840, *nom.* Lake Erie to Tennessee = *T. erectum* Linn.
var. *flexicaule* Raf. Med. Fl. 2:98. 1830, *nom.*
maculatum Raf. l.c., *nom.*
orbiculatum Raf. l.c., *nom.*; Aut. Bot. l.c., *nom.* Kentucky.
pallidum Raf. Med. Fl. l.c., *nom.*
rubricaule Raf. l.c., *nom.*
undulatum Raf. l.c., *nom.*

TRILLIUM (*continued*).

- spatulatum* Raf. op. cit. 101, *descr.* (*Trillium purpureum* Kin ex Ell.). Alleghany Mountains=*Trillium erectum* Linn.
- **stenanthes* Raf. Aut. Bot. 132. 1840, *descr.* Arkansas.
- tinctorium* Raf. Med. Fl. 2:98. 1830, *descr.*; Casket 1832:3. 1832, *nom.*; Sat. Eve. Post 12(271):[4]. 1832, *nom.* Missouri River.
- **undulatum* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. 2:173. 1809, *nom.*; Med. Fl. 2:100. 1830, *descr.*; Aut. Bot. 133. 1840, *nom.* Alleghany Mountains of Pennsylvania. Prob.=*Trillium undulatum* Willd.
- †*unguiculatum* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Med. Fl. 2:98. 1830, *descr.*; Aut. Bot. 132. 1840, *nom.* (an *T. recurvatum* Beck?). Indiana, Kentucky, Missouri=*Trillium recurvatum* Beck (1826).
- var. *crassicaule* Raf. Med. Fl. 2:99. 1830, *nom.*
- maculatum* Raf. l.c., *nom.*
- undulatum* Raf. l.c., *nom.*
- TRIMELOPTER** Raf. Fl. Tellur. 2:24. 1836 [1837], *descr.*=*Ornithogalum* Linn.
- fuscum* Raf. l.c., *nom.* (*Ornithogalum fuscum* Jacq.). South Africa.
- ***TRITILLARIA** Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom.* sub *Lilium pudicum* Pursh, *sphalm.*=*Fritillaria* Linn.
- #**TRITRIELA** Raf. Fl. Tellur. 3:59. 1836 [1837], *nom. nov. provis.*, *nota*, subgen. *Loncomelos* Raf., sub *Melomphis patens* Raf. (Type *Ornithogalum narbonense* Linn.)=*Ornithogalum* Linn.
- TROXILANTHES** Raf. Aut. Bot. 67. 1840, *descr.*; Pennell Bull. Torr. Bot. Club 48:93. 1921, *nom.*=*Polygonatum* Adans. (1763).
- angustifolia* Raf. l.c., *descr.*; Pennell, l.c., *nom.* Belgium=*Polygonatum verticillatum* (Linn.) All.
- **lanceolata* Raf. l.c., *nom.* (*Convallaria verticillata* Linn.). Europe=*Polygonatum verticillatum* (Linn.) All.
- **ramosa* Raf. l.c., *nom.* (*Convallaria verticillata* Linn.). Europe=*Polygonatum verticillatum* (Linn.) All.
- TULIPA** Linn.
- aurea* Raf. Atl. Jour. 1:153. 1832, *descr.*; Fl. Tellur. 2:35. 1836 [1837], *descr.* "In Gardens [Philadelphia] from Texas."
- bicolor* Raf. Atl. Jour. l.c., *descr.*; Herb. Raf. 26. 1833, *nom.*; Fl. Tellur. 2:35. 1836 [1837], *descr.* Arkansas, Texas.
- laciniata* Raf. Fl. Tellur. l.c., *descr.* In gardens.
- †*montana* Raf. Med. Fl. 2:270. 1830, *nom.*; Atl. Jour. 1:153. 1833, *descr.*; Fl. Tellur. l.c., *descr.* Alleghany Mountains.
- pudica* Raf. Atl. Jour. 1:153. 1832, *descr.* (*Amblirion pudicum* Raf.; *Lilium pudicum* Pursh). Rocky Mountains or Oregon=*Fritillaria pudica* (Pursh) Spreng.
- unguiculata* Raf. Fl. Tellur. 2:35. 1836 [1837], *descr.* Caucasus.
- TULISTA** Raf. Aut. Bot. 137. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Haworthia* Duval (1809), *nom. conserv.* (*Catevala* Medic., 1786).
- margaritifera* Raf. l.c., *descr.* (*Aloe margaritifera* Burm. f.); Pennell, l.c., *nom.* South Africa=*Haworthia margaritifera* (Linn.) Haw.
- TULOPHOS** Raf. Fl. Tellur. 3:71. 1836 [1837], *descr.*=*Brodiaea* Sm. (1811), *nom. conserv.* (*Hookera* Salisb., 1808).
- grandiflora* Raf. l.c., *descr.* (*Triteleia grandiflora* Lindl. Bot. Reg. 15: sub t. 1293. 1830). Oregon=*Brodiaea douglasii* S. Wats.
- laxa* Raf. l.c., *descr.* (*Triteleia laxa* Benth.; Lindl. Bot. Reg. 20: t. 1685. 1834). California=*Brodiaea laxa* (Benth.) S. Wats.
- †**UVULANA** Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*, *sphalm.*=*Uvularia* Linn.
- angulata* Raf. l.c., *nom.* Alleghany Mountains or Ohio.
- UVULARIA** Linn.
- acutifolia* Raf. Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.* Pennsylvania (near Philadelphia).
- VAGNERA** Adans. (1763)=*Smilacina* Desf. (1807), *nom. conserv.* (*Vagnera* Adans., 1763; *Tovaria* Neck.; 1790, *Polygonastrum* Moench., 1794).
- **angustifolia* Raf. Aut. Bot. 68. 1840, *descr.* New England to Georgia.
- **retusa* Raf. l.c., *descr.* Alleghany Mountains.
- **stellata* Raf. l.c., *nom.* in *nota* [*Smilacina stellata* Desf.]. Eastern North America.

VERATRUM Linn.

- **dioicum* Raf. Med. Fl. 1:39. 1828, *iter.* Man. Med. Bot. 39. 1841, *nom. nov.* *Veratrum luteum* Linn. Eastern North America=*Chamaelirium luteum* (Linn.) A. Gray.
- ***XEROPHYLLUM** Raf. New Fl. N. Am. 1:26. 1836, *nom.*=*Xerophyllum* Michx. (1803).
- ***YUCCA** Raf. Fl. Tellur. 1:73. 1836 [1837], *nom.*=*seq.*
- YUCCA** Linn.
- **pumila* Raf. Herb. Raf. 40. 1833, *nom.* Upper Missouri (Mandan country)=Dakota.
- ***YUCEA** Raf. Fl. Tellur. 1:16. 1836 [1837], *nom.*, *sphalm.*=*prae.*
- ZIGADENUS** Michx.; Raf. Fl. Tellur. 2:30. 1836 [1837], *descr.* (*Zygadinus* auct.).
- **angulosus* Raf. Western Minerva 41. 1821, *nom.*, *iter.* Fox, Sci. II. 12:213. 1900. North America.
- **fuscatus* Raf. Fl. Tellur. 2:30. 1836 [1837], *nom. alt.* *Gomphostylis fuscatus* Raf. Eastern North America.
- **pratensis* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* Kentucky.
- #**ZIGOTILA** Raf. Fl. Tellur. 2:32. 1836 [1837], *descr.*, subgen. *Onixotis* Raf. (Type, *Melanthium "racemoides," sphalm.* =*M. eucomoides* Jacq.)=*Melanthium* Linn.
- ZYGADENUS** [*Zigadenus*] Michx.
- fuscatus* Raf. ex Jacks*. Ind. Kew. 2:1255. 1895 (*Zigadenus fuscatus* Raf.). Eastern North America.

AMARYLLIDACEAE

- ABAPHUS** Raf. ex Jacks*. Ind. Kew. 1:1. 1893, *sphalm.*=*Abapus* Adans.=*Gethyllis* Linn.
- ABAPUS** Adans.; Raf. Fl. Tellur. 4:19. 1836 [1838], *descr.*=*Gethyllis* Linn.
- spiralis* Raf. l.c., *descr.* (*Papiria spiralis* Thunb.; *Gethyllis afra* auct.; Lindl. Bot. Reg. 12: t. 1016. 1826). South Africa=*Gethyllis spiralis* Linn. f., et quoad Lindl. Bot. Reg., *G. afra* Linn.
- AGAVE** Linn.
- **arkanzica* Raf. Herb. Raf. 63, *nom.*, 64, *descr.*, 1833. Arkansas.
- AMARYLLIS** Linn.
- **aetnensis* Raf. Chloris Aetn. 12. 1815, *nom.* Sicily=*Amaryllis etnensis* Raf.=*A. citrina* Sibth. & Sm. fide Raf. l.c.=*Sternbergia colchiciflora* Waldst. & Kit.
- aethnensis* Raf. ex Jacks*. Ind. Kew. 1:101. 1893=*prae.*
- etnensis* Raf. Car. Nuov. Gen. Sp. Sicil. 84. t. 18. f. 3. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.* Sicily=*prae.*
- ARGOLASIA** Juss.=*Lanaria* Ait. (1789).
- **tomentosa* Raf. Aut. Bot. 123. 1840, *nom.*, *nota* (*Lophiola aurea* Ker-Gawl.; *Conostylis americana* Pursh). New Jersey to Florida=*Lophiola aurea* Ker-Gawl.
- ATAMASCO** Raf. Neogen. 3. 1825, *descr.* (Type *Amaryllis atamasca* Linn.)=*Zephyranthes* Herb. (1821) *nom. conserv.* (*Atamosco* [*Atamosko*] Adans., 1763).
- AULICA** Raf. Fl. Tellur. 4:10. 1836 [1838], *descr.*=*Hippeastrum* Herb. (1821).
- latifolia* Raf. l.c., *descr.* (*Amaryllis aulica* Ker-Gawl.; Hook. Bot. Mag. 61: t. 3311. 1834). Brazil=*Hippeastrum aulicum* (Ker-Gawl.) Herb.
- platypetala* Raf. l.c., *nom.*, *nota* (*Amaryllis aulica* Ker-Gawl. var. *platypetala* Lindl. Bot. Reg. 12: t. 1038. 1827). Brazil.
- striata* Raf. Fl. Tellur. l.c., *descr.* (*Amaryllis aulica* Ker-Gawl. var. *glaucophylla* Hook. Bot. Mag. 57: t. 2983. 1830). Brazil.
- AUROTA** Raf. Fl. Tellur. 3:61. 1836 [1837], *descr.*=*Curculigo* Gaertn. (1788) (*Molineria* Colla, 1826).
- latifolia* Raf. l.c., *descr.* (*Curculigo latifolia* Ait.; Sims, Bot. Mag. 46: t. 2034. 1819; Ker-Gawl. Bot. Reg. 9: t. 754. 1823). Tropical Asia=*Curculigo capitulata* (Lour.) O. Kuntze (*C. recurvata* Ait., *Molineria recurvata* Herb., *M. capitulata* Herb.).
- AUTOGENES** Raf. Fl. Tellur. 4:20. 1836 [1838], *descr.*=*Narcissus* Linn.
- angustifolius* Raf. l.c., *nom.* [*Narcissus angustifolius* Curt.]. Europe.
- biflorus* Raf. l.c., *nom.* [*Narcissus biflorus* Curt.]. Europe.
- poeticus* Raf. l.c., *nom.* [*Narcissus poeticus* Linn.]. Europe.
- tenuior* Raf. l.c., *nom.* [*Narcissus tenuior* Curt.]. Europe.
- BRAXIREON** Raf. Fl. Tellur. 4:23. 1836 [1838], *descr.*=*Tapeinanthus* Herb. (1837).
- humile* Raf. l.c., *nom.* (*Pancratium humile* Cav.). Spain, Morocco=*Tapeinanthus humilis* (Cav.) Herb.

CALATHINUS Raf. Fl. Tellur. 4:21. 1836 [1838], *descr.* = *Narcissus* Linn.
cernuus Raf. l.c., *nom.* (*Narcissus cernuus* Salisb.; *N. pyrenaeus* Pers.; *N. triandrus* Linn.). Southwestern Europe.
multiflorus Raf. l.c., *nom.* (*Narcissus calathinus* auctt.). Europe.
serotinus Raf. l.c., *nom.* (*Narcissus calathinus* auctt.). Europe.
CODIAMINUM Raf. Fl. Tellur. 4:21. 1836 [1838], *descr.* = *Narcissus* Linn.
**minimum* Raf. l.c., *nom.* (*Narcissus bulbocodium* Linn.). Spain.
**montanum* Raf. l.c., *nom.* (*Narcissus bulbocodium* Linn.). Spain.
CONANTHERA Ruiz & Pavon.
**campanula* Raf. Fl. Tellur. 3:61. 1836 [1837], *nom.* sub *Cummingia andica* Raf. Chile = *Conanthera campanulata* Lindl. = *C. simsii* Sweet.
CRINUM Linn.
ceruleum Raf. Atl. Jour. 1:164. 1833, *nom. nov.* *Crinum americanum* sensu Pursh. Louisiana = *Crinum americanum* Linn.
CUMMINGIA D. Don = *Conanthera* Ruiz & Pavon (1802).
andica Raf. Fl. Tellur. 3:61. 1836 [1837], *descr.* (*Conanthera bifolia* sensu Sims Bot. Mag. 51: t. 2496. 1824, non Ruiz & Pavon; *Conanthera campanulata* Lindl. Bot. Reg. 14: t. 1193. 1828). Chile = *Conanthera simsii* Sweet.
DODECASPERMA Raf. Fl. Tellur. 4:35. 1836 [1838], *descr.* = *Bomarea* Mirb. (1804).
acutifolia Raf. l.c., *descr.* (*Alstroemeria acutifolia* Link & Otto, Ic. Pl. Rar. Hort. Bot. Berol. 57. t. 29. 1828-31; Hook. Bot. Mag. 58: t. 3050. 1831). Mexico = *Bomarea acutifolia* (Link & Otto) Herb.
EUSARCOPS Raf. Fl. Tellur. 4:11. 1836 [1838], *descr.* = *Hippeastrum* Herb. (1821).
reticulata Raf. l.c., *descr.* (*Amaryllis reticulata* L'Hérit.; Andr. Bot. Repos. 3: t. 179. 1801; Sims Bot. Mag. 18: t. 657. 1803; Redouté, Lil. 8: t. 424. 1816; Ker-Gawl. Bot. Reg. 5: t. 352. 1819). Brazil = *Hippeastrum reticulatum* (L'Hérit) Herb.
FURCROYA Raf. Princ. Somiol. 31. 1814, *nom. nov.* *Furcraea* Vent.
***HEMANTHUS** Raf. First Cat. Bot. Gard. Transylv. Univ. 21. 1824, *nom.*; Fl. Tellur. 4:19. 1836 [1838], *nom.* = *Haemanthus* Linn.
**coccineus* Raf. First Cat. l.c., *nom.* = *Haemanthus coccineus* Linn. South Africa.
HYMENOCALLIS Herb.
**driandri* Raf. Fl. Tellur. 4:123. 1836 [1838], *nom.* sub *Troxistemon* Raf. Tropical America = *Hymenocallis dryandri* M. Roem. = *H. littoralis* Salisb.
HYPOXIS Linn.
**pilosa* Raf. Aut. Bot. 63. 1840, *nom. nov.* *H. erecta* Linn. (*H. carolinensis* Michx.). North America = *Hypoxis hirsuta* (Linn.) Coville.
var. angustifolia Raf. l.c., *nom.*
decumbens Raf. l.c., *nom.*
graminifolia Raf. l.c., *nom.*
latifolia Raf. l.c., *nom.*
multiflora Raf. l.c., *nom.*
parviflora Raf. l.c., *nom.*
striata Raf. l.c., *nom.*
JONQUILLA Haworth = *Narcissus* Linn.
bicolor Raf. Fl. Tellur. 4:21. 1836 [1838], *nom.* [*Narcissus bicolor* Linn.]. Europe.
incomparabilis Raf. l.c., *nom.* [*Narcissus incomparabilis* Mill.]. Southern Europe.
**odora* Raf. l.c., *nom.* (*Narcissus jonquilla* Linn.). Mediterranean region.
tazetta Raf. l.c., *nom.* [*Narcissus tazetta* Linn.]. Mediterranean region.
triloba Raf. l.c., *nom.* [*Narcissus trilobus* Linn.]. Mediterranean region.
viridiflora Raf. l.c., *nom.* [*Narcissus viridiflorus* Schousb.]. Mediterranean region.
LATICOMA Raf. Fl. Tellur. 4:12. 1836 [1838], *descr.* = *Nerine* Herb. (1820), *nom. conserv.* (*Imhofia* Heist., 1753).
compressa Raf. l.c., *descr.* (*Amaryllis laticoma* Ker-Gawl. Bot. Reg. 6: t. 497. 1820). South Africa = *Nerine lucida* Herb. = *N. laticoma* (Ker-Gawl.) Th. Dur. & Schinz.

LEUCODESMIS Raf. Fl. Tellur. 4:19. 1836 [1838], *descr.* = *Haemanthus* Linn.
pubescens Raf. l.c., *descr.* (*Haemanthus pubescens* sensu Ker-Gawl. Bot. Reg. 5: t. 382. 1819; *H. albiflos* Jacq.; Sims, Bot. Mag. 31: t. 1239. 1810). South Africa = *Haemanthus albiflos* Jacq.
LILAVIA Raf. Fl. Tellur. 4:35. 1836 [1838], *descr.* = *Alstroemeria* Linn.
psittacina Raf., l.c., *descr.* (*Alstroemeria psittacina* Lehm.; Sweet, Brit. Fl. Gard. 4: t. 15. 1829; Hook. Bot. Mag. 57: t. 3033. 1830). Mexico = *Alstroemeria pulchella* Linn. f.
LIRIAMUS Raf. Fl. Tellur. 4:23. 1836 [1838], *descr.* = *Crinum* Linn.
quinqueflorus Raf. l.c., *descr.* (*Crinum arenarium* Herb. Bot. Mag. 52: t. 2531. 1825). Australia = *Crinum angustifolium* R. Br. (1810), non Linn. f. (1781) = *Crinum arenarium* Herb.
MESOCHLOA Raf. Fl. Tellur. 4:11. 1836 [1838], *descr.* = *Zephyranthes* Herb. (1821), *nom. conserv.* (*Atamosco* [Atamosko] Adans., 1763).
canaliculata Raf. l.c., *descr.* (*Zephyranthes mesochloa* Herb. Bot. Reg. 16: t. 1361. 1830). Argentina.
MOSKERION Raf. Fl. Tellur. 4:21. 1836 [1838], *descr.* = *Narcissus* Linn.
hispanicum Raf., l.c., *nom.* (*Narcissus hispanicus* Gouan). Spain.
moschatum Raf. l.c., *nom.* (*Narcissus moschatus* Linn.). Spain, France.
NARCISSUS Linn.
**janguilla* Raf. Am. Jour. Sci. 1:79. 1818, *nom.*, *sphalm.* = *Narcissus jonquilla* Linn. Europe.
**poculigera* Raf. Fl. Tellur. 4:123. 1836 [1838], *nom.* sub *Queltia* Salisb. Pyrenees Mountains. = *N. poculiformis* Salisb.
NEMEPIODON Raf. Fl. Tellur. 4:22. 1836 [1838], *descr.* = *Hymenocallis* Salisb. (1812).
caribeum Raf. l.c., *nom.* (*Pancratium caribaeum* sensu Ker-Gawl. Bot. Mag. 21: t. 826. 1805). West Indies = *Hymenocallis caribaea* Herb.
mexicanum Raf. l.c., *nom.* (*Hymenocallis mexicana* Herb.). Mexico.
speciosum Raf. l.c., *nom.* (*Hymenocallis speciosa* Salisb.; *Pancratium speciosum* Linn. f.; Redouté, Lil. 3:156. t. 156. 1805-07). Tropical America.
NESSYNTYLIS Raf. Fl. Tellur. 4:123. 1836 [1838], *descr.* = *Strumaria* Jacq. (1790).
filifolia Raf. l.c., *descr.* (*Strumaria filifolia* Jacq.; *Crinum tenellum* Linn. f.; *Leucojum strumosum* Soland.; Ker-Gawl. Bot. Reg. 6: t. 440. 1820). South Africa = *Hessea filifolia* (Jacq.) Benth. & Hook. f.
undulata Raf. l.c., *nom.* (*Strumaria undulata* Jacq.). South Africa.
PANCRATIUM Linn.; Raf. Fl. Tellur. 4:21. 1836 [1838], *descr.*
liriosme Raf. Fl. Ludovic. 10, *nom.*, 19, *descr.*, 1817 (*Pancrais* Rob. Voy. Louis. 3:19. 1807); Western Minerva 42. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Fl. Tellur. 4:21. 1836 [1838], *nom.* Louisiana.
**liviosme* Raf. Fl. Tellur. 1:16. 1836 [1837], *nom.*, *sphalm.* = *praec.*
***PERIHEMA** Raf. Fl. Tellur. 4:20. 1836 [1838], *descr.* = *Haemanthus* Linn.
**coarctata* Raf. l.c., *descr.* (*Haemanthus coarctatus* Jacq.; Ker-Gawl. Bot. Reg. 3: t. 181. 1817). South Africa.
PERIHEMA Raf. ex Jacks*. Ind. Kew. 2:470. 1894 = *praec.*
coarctata Raf. ex Jacks*. l.c. = *praec.*
PLECTRONEMA Raf. Fl. Tellur. 4:10. 1836 [1838], *descr.* = *Zephyranthes* Herb. (1821), *nom. conserv.* (*Atamosco* [Atamosko] Adans., 1763).
candida Raf. l.c., *descr.* (*Zephyranthes candida* Herb. Bot. Mag. 53: t. 2607. 1826; *Amaryllis candida* Lindl. Bot. Reg. 9: t. 724. 1823). Argentina = *Zephyranthes candida* (Lindl.) Herb.
PLEURASTIS Raf. Fl. Tellur. 4:12. 1836 [1838], *nom. nov. provis.* (Type *Amaryllis radiata* L'Hérit = *Lycoris radiata* Herb.) = *Lycoris* Herb. (1821).
PLEUROSTIMA Raf. Fl. Tellur. 2:97. 1836 [1837], *descr.* = *Barbacinia* Vent. (1796).
purpurea Raf. op. cit. 98, *descr.*, *sphalm.* "*purpurca*" (*Barbacinia purpurea* Hook. Bot. Mag. 54: t. 2777. 1827). Brazil.

- POGONEMA** Raf. Fl. Tellur. 4:10. 1836 [1838], *descr.* = *Zephyranthes* Herb. (1821), *nom. conserv.* (*Atomosco* [*Atomosko*] Adans., 1763).
carinata Raf. l.c., *nom.* (*Zephyranthes carinata* Herb.). Jamaica.
- PRIOPETALON** Raf. Fl. Tellur. 4:34. 1836 [1838], *descr.* = *Alstroemeria* Linn.
pallidum Raf. op. cit. 35, *descr.* (*Alstroemeria pallida* Grah.; Hook. Bot. Mag. 58: t. 3040. 1831). Chile = *Alstroemeria ligtu* Linn.
- SCADIANUS** Raf. Atl. Jour. 1:164. 1833, *descr.*; Fl. Tellur. 4:23. 1836 [1838], *descr.* = *Crinum* Linn.
multiflorus Raf. Fl. Tellur. l.c., *descr.* (*Crinum americanum* sensu Pursh). Florida, Louisiana, cult. Philadelphia = *Crinum americanum* Linn.
- SCADOXUS** Raf. Fl. Tellur. 4:19. 1836 [1838], *descr.* = *Haemanthus* Linn.
multiflorus Raf. l.c., *descr.* (*Haemanthus multiflorus* Martyn). South Africa.
- SERENA** Raf. Fl. Tellur. 4:20. 1836 [1838], *descr.* = *Haemanthus* Linn.
carnea Raf. l.c., *descr.* (*Haemanthus carneus* Ker-Gawl. Bot. Reg. 6: t. 509. 1821). South Africa.
lanceifolia Raf. l.c., *descr.* (*Haemanthus lanceaefolius* Jacq.). South Africa.
- SIPHOTOMA** Raf. Fl. Tellur. 4:22. 1836 [1838], *descr.* = *Hymenocallis* Salisb. (1812).
calathina Raf. l.c., *nom.* (*Pancratium calathinum* Ker-Gawl. Bot. Mag. 38: t. 1561. 1813). South America = *Hymenocallis calathina* (Ker-Gawl.) Nichols.
- STEMONIX** Raf. Atl. Jour. 1:165. 1833, *descr.* = *Eurycles* Salisb. (1812).
nervosus Raf. ex Jacks*. Ind. Kew. 2:988. 1895 (*Crinum nervosum* L'Hérit.). Indo-Malaysia = *Eurycles amboinensis* (Linn.) Lindl.
- TOMODON** Raf. Fl. Tellur. 4:22. 1836 [1838], *descr.* = *Hymenocallis* Salisb. (1812).
coronarium Raf. l.c., *nom.* (*Pancratium coronarium* Le Conte). Southeastern United States = *Hymenocallis coronaria* (Le Conte) Kunth.
floridanum Raf. l.c., *nom. nov.* *Pancratium rotatum* sensu Le Conte, non Herb. 1821. Florida (St. Johns River).
pratense Raf. l.c., *nom.* (*Pancratium occidentale* Le Conte). Southeastern United States = *Hymenocallis occidentalis* (Le Conte) Kunth.
riparium Raf. l.c., *nom.* (*Pancratium mexicanum* sensu Le Conte). South Carolina, Georgia = *Hymenocallis crassifolia* Herb.
rotatum Raf. l.c., *nom.* (*Pancratium rotatum* Ker-Gawl. Bot. Mag. 21: t. 827. 1805). Carolina = *Hymenocallis crassifolia* Herb.
- TRISACARPIS** Raf. Fl. Tellur. 4:11. 1836 [1838], *descr.* = *Hippeastrum* Herb. (1821).
falcata Raf. l.c., *descr.* (*Amaryllis calyptata* Ker-Gawl. Bot. Reg. 2: t. 164. 1817). Brazil = *Hippeastrum calyptatum* (Ker-Gawl.) Herb.
psittacina Raf. l.c., *nom.* (*Amaryllis psittacina* Ker-Gawl.). Brazil = *Hippeastrum psittacinum* (Ker-Gawl.) Herb.
rubra Raf. l.c., *descr.* (*Amaryllis aulica* Ker-Gawl.; Bot. Reg. 6: t. 444. 1820). Brazil = *Hippeastrum aulicum* (Ker-Gawl.) Herb.
- TROXISTEMON** Raf. Fl. Tellur. 4:23. 1836 [1838], *descr.*; op. cit. 123, *nom., nota* = *Hymenocallis* Salisb. (1812).
distichus Raf. ex Jacks*. Ind. Kew. 2:1133. 1895 (*Hymenocallis disticha* Herb.). Tropical America = *Hymenocallis littoralis* (Jacq.) Salisb.
dryandri Raf. ex Jacks*. l.c. (*Hymenocallis dryandri* Herb.). Tropical America = *H. littoralis* (Jacq.) Salisb.
fragrans Raf. Fl. Tellur. 4:23. 1836 [1838], *nom.* [*Pancratium fragrans* Salisb.]. West Indies = *Hymenocallis ovata* M. Roem.
littorale Raf. l.c., *nom.* [*Pancratium littorale* Jacq.]. Tropical America = *Hymenocallis littoralis* (Jacq.) Salisb.
mexicanus Raf. ex Jacks*. l.c. (*Hymenocallis mexicana* Herb.). Mexico = *H. lacera* Salisb.
- ***ZEPHIRANTHES** Raf. Fl. Tellur. 4:11. 1836 [1838], *nom.* = *Zephyranthes* Herb. (1821), *nom. conserv.* (*Atomosco* [*Atomosko*] Adans., 1763).
- ZOUCHIA** Raf. Fl. Tellur. 4:22. 1836 [1838], *descr.* = *Pancratium* Linn.
illyrica Raf. l.c., *nom.* (*Pancratium illyricum* Linn.). Europe.

DIOSCOREACEAE

- DIOSCOREA** Linn.
hexaphyla Raf. Herb. Raf. 66. 1833, *nom.*; New Fl. N. Am. 2:89. 1836 [1837], *descr.* Appalachian Mountains of Virginia.
longifolia Raf. New Fl. N. Am. 2:89. 1836 [1837], *descr.* Alabama.
megaptera Raf. Herb. Raf. 63. 1833, *nom.*; New Fl. N. Am. 2:88. 1836 [1837], *descr.* Kentucky.
repanda Raf. l.c., *nom.*; op. cit. 89, *descr.* Virginia to Alabama.
- ***RAYANIA** Raf. Aut. Bot. 125. 1840, *nom.* = *Rajania* Linn.
cordata Raf. l.c., *nom.* (*Rajania cordata* Linn.). Cuba.
mucronata Raf. l.c., *nom.* (*Rajania mucronata* Willd.). Cuba.
quinquenervia Raf. l.c., *descr.* Cuba.
- ***RAYNIA** Raf. Anal. Nat. Tabl. Univ. 199. 1815, *nom. nov.* *Rajania* Linn.
- RHIZEMYS** Raf. Fl. Tellur. 4:26. 1836 [1838], *descr., nom. nov.* *Testudinaria* Salisb. (1824).
elephantipes Raf. l.c., *descr.* (*Tamus elephantipes* L'Hérit.). South Africa = *Testudinaria elephantipes* (L'Hérit.) Salisb.
montana Raf. l.c., *descr.* South Africa [*Testudinaria montana* Buchell; Lindl. Bot. Reg. 11: sub t. 921. 1825] = *T. elephantipes* (L'Hérit.) Salisb.
- ***STEIREXA** Raf. Fl. Tellur. 4:100. 1836 [1838], *descr., nom. nov.* *Trichopus* Gaertn. (1788).
angustifolia Raf. l.c., *descr.* [*Trichopus zeylanicus* Gaertn.]. Ceylon.
cordata Raf. l.c., *descr.* [*Trichopus zeylanicus* Gaertn.]. Ceylon.
media Raf. l.c., *descr.* [*Trichopus zeylanicus* Gaertn.]. Ceylon.
- STEIREYA** Raf. ex Jacks*. Ind. Kew. 2:983. 1895, *sphalm.* = *Steirexa* Raf. (1838) = *praec.*
angustifolia Raf. ex Jacks*. l.c. = *Trichopus zeylanicus* Gaertn.
cordata Raf. ex Jacks*. l.c. = *Trichopus zeylanicus* Gaertn.
media Raf. ex Jacks*. l.c. = *Trichopus zeylanicus* Gaertn.
- ***UBIDIUM** Raf. Anal. Nat. Tabl. Univ. 199. 1815, *nom. nov.* *Ubiun* J. F. Gmel. (1791) = *Dioscorea* Linn.

IRIDACEAE

- ANACTORION** Raf. Fl. Tellur. 4:34. 1836 [1838], *descr.* = *Synnotia* Sweet (1826).
bicolor Raf. l.c., *nom.* (*Sparaxis bicolor* Ker-Gawl.). South Africa = *Synnotia bicolor* (Thunb.) Sweet.
galeatum Raf. l.c., *nom.* (*Sparaxis galeata* Ker-Gawl.; *Gladiolus galeatus* Jacq.). South Africa = *praec.*
- ***BELENDENIA** Raf. Loud. Gard. Mag. 8:245. 1832, *nom. nov.* *Tritonia* Ker-Gawl., iter. Britten, Jour. Bot. 38:226. 1900 = *Tritonia* Ker-Gawl. (1802).
- †**BELLENDENIA** Raf. ex Schlecht. Linnæa 8: Lit.-Ber. 68. 1833, *nom.*; Endl. Gen. 169. 1837, *nom. in syn.* = *praec.*
- CROCUS** Linn.
grandiflorus Raf. Aut. Bot. 124. 1840, *descr.* Siberia?
longiflorus Raf. Car. Nuov. Gen. Sp. Sicil. 84. t. 19. f. 2. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; *Chloris* Aetn. 12. 1815, *nom.* Sicily.
luzianus Raf. Aut. Bot. 123, *nom., sphalm.* = *Crocus susianus* Ker-Gawl. Asia Minor.
suzianus Raf. l.c., *nom. nota, sphalm.* = *Crocus susianus* Ker-Gawl. Asia Minor.
vittatus Raf. l.c., *descr.* Australia.
- EVELTRIA** Raf. Fl. Tellur. 4:30. 1836 [1838], *descr.* = *Orthrosanthus* Sweet (1827).
multiflora Raf. Fl. Tellur. 4:30. 1836 [1838], *descr.* (*Orthrosanthus multiflorus* Sweet; *Sisyrinchium cyaneum* Lindl. Bot. Reg. 13: t. 1090. 1827). Australia = *Orthrosanthus multiflorus* Sweet.
- ***EZERIA** Raf. Fl. Tellur. 4:51. 1836 [1838], *nom., nota, sub Bojeria* Raf., *nom. nov.* *Renealmia* R. Brown (1810), non Linn., nec Linn. f. = *Libertia* Spreng. (1825), *nom. conserv.* (Tekel Adans., 1763).
- GEANTHIA** Raf. Med. Repos. II. 5:350. 1808, *nom.*; Jour. Bot. (Paris) 2:167. 1809, *nom.* = *Crocus* Linn.
colchicoides Raf. l.c., *nom., nota*; A. Gray, Am. Jour. Sci. 40:226. 1841, *nom.* Pennsylvania.

- GEANTHUS** Raf. Specch. Sci. 1:116. 1814, *descr.* Ex *descr.* = *Crocus* Linn.
autumnalis Raf. l.c., *descr.* Pennsylvania. Ex *descr.* = *Crocus sativus* Linn.
***IRIDIS** Raf. Anal. Nat. Tabl. Univ. 198, 222. 1815, *nom. nov.* Iris Linn.; Fl. Tellur. 1:86. 1836 [1837], *nom.* = seq.
IRIS Linn.
***aurea** Raf. Atl. Jour. 1:80. 1832, *descr.*; New Fl. N. Am. 2:93. 1836 [1837], *descr.* Pennsylvania (Pocono Mountains).
***biflora** Raf. New Fl. N. Am. 2:92. 1836 [1837], *descr.*; Aut. Bot. 57. 1840, *nom.* North Carolina (Unaka Mountains).
brevicaulis Raf. Fl. Ludovic. 20. 1817, *descr.* (*Iris blanche* Rob. Voy. Louis. 3:20. 1807); Western Minerva 42. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Atl. Jour. 1:179. 1833, *nom.*; Herb. Raf. 26, 63. 1833, *nom.*; New Fl. N. Am. 2:93. 1836 [1837], *descr.*; Aut. Bot. 57. 1840, *nom.* Louisiana to western Kentucky.
convoluta Raf. New Fl. N. Am. 2:92. 1836 [1837], *descr.*; Aut. Bot. 57. 1840, *nom.* Arkansas, Texas.
***crocea** Raf. Western Rev. Miscel. Mag. 1:93. 1819, *nom.* Kentucky.
floridana Raf. New Fl. N. Am. 2:92. 1836 [1837], *descr.*; Aut. Bot. 57. 1840, *nom.* Florida, Alabama.
glumacea Raf. New Fl. N. Am. op. cit. 93, *descr.* Alleghany Mountains.
 var. **angustifolia** Raf. l.c., *descr.* Illinois = *Iris pallens* Raf.
***pallens** Raf. l.c., *nom. alt.* *Iris glumacea* Raf. var. *angustifolia* Raf. Illinois.
rubescens Raf. Fl. Ludovic. 20. 1817, *descr.* (*Iris à fleurs rouge de brique* Rob. Voy. Louis. 3:20. 1807); New Fl. N. Am. 2:94. 1836 [1837], *nom.* in syn. sub. *I. fulva* Ker-Gawl.). Louisiana = *Iris fulva* Ker-Gawl.
virgata Raf. New Fl. N. Am. 2:92. 1836 [1837], *nom. alt.* *Iris biflora* Raf.; Aut. Bot. 57. 1840, *nom.*
IXIA Linn.
***purpurea** Raf. Chloris Aetn. 12. 1815, *nom.* sub *Trichonema purpurascens* Raf. Sicily = *Ixia purpurascens* Tenore = *Romulea purpurascens* Tenore.
LIBERTIA Spreng. (1825), *nom. conserv.* (Tekel Adans., 1763).
***iridea** Raf. Fl. Tellur. 4:10. 1836 [1838], *nom.* sub *Taumastus* Raf. Tierra del Fuego = *Libertia formosa* Grah.
OLSYNIUM Raf. New Fl. N. Am. 1:72. 1836, *descr.*; Fl. Tellur. 4:30. 1836 [1838], *descr.*; op. cit. 50, 51, *nom.*; Good Book 45. 1840, *nom.*; New Fl. N. Am. 4:104. 1836 [1838], *nom.*
grandiflorum Raf. New Fl. 1:72. 1836; Fl. Tellur. l.c., *descr.* (*Sisyrinchium grandiflorum* Dougl.; Lindl. Bot. Reg. 16: t. 1364. 1830; Hook. Bot. Mag. 63: t. 3509. 1836). Oregon = *Sisyrinchium grandiflorum* Dougl. = *Olysinum douglasii* (A. Dietr.) Bickn.
luteum Raf. Fl. Tellur. 4:30. 1836 [1838], *descr.* (*Marica californica* Ker-Gawl. Bot. Mag. 25: t. 983. 1807). California = *Sisyrinchium californicum* Dry = *Hydastylis californicus* (Ker-Gawl.) Salisb.
ORTHROSANTHES Raf. Fl. Tellur. 4:30. 1836 [1838], *nom.* = *Orthrosanthus* Sweet (1827).
ixioides Raf. ex Jacks*. Ind. Kew. 2:378. 1894 (*Sisyrinchium ixioides* Forst. f.). New Zealand = *Libertia ixioides* (Forst. f.) Spreng.
PANEGUIA Raf. Fl. Tellur. 4:34. 1836 [1838], *descr.* = *Sisyrinchium* Linn.
palmifolia Raf. l.c., *descr.* (*Sisyrinchium palmifolium* Linn.; *Moraea palmifolia* Thunb.). South America = *Eleutherine palmifolia* (Linn.) Merr.
striata Raf. l.c., *descr.* (*Sisyrinchium striatum* Sm. Ic. Pict. Pl. Rar. t. 9. 1790; Redouté, Lil. 2: t. 66. 1804; *S. spicatum* Cav.; *Marica striata* Ker-Gawl. Bot. Mag. 19: t. 701. 1804). South America = *Sisyrinchium striatum* Sm.
#PASGANON Raf. Fl. Tellur. 4:34. 1836 [1838], *descr.*, subgen. provis. *Anactorion* Raf. (Type *Gladiolus galeatus* Jacq.; *Sparaxis galeata* Ker-Gawl.) = *Synnotia* Sweet (1826).
PHAIANTHES Raf. Fl. Tellur. 4:30. 1836 [1838], *descr.* = *Moraea* Linn. (1762), *nom. conserv.* (*Moraea* Mill., 1758).
lurida Raf. op. cit. 31, *descr.* (*Moraea lurida* Ker-Gawl. Bot. Reg. 4: t. 312. 1818). South Africa.
PHATOPHLEPS Raf. Fl. Tellur. 4:29. 1836 [1838], *descr.* = *Symphostemon* Miers (1841).

- odoratissima** Raf. l.c., *descr.* (*Sisyrinchium odoratissimum* Lindl. Bot. Reg. 15: t. 1283. 1829). Patagonia (*Symphostemon odoratissimus* (Lindl.) Miers).
POGADDELPHIA Raf. Fl. Tellur. 4:29. 1836 [1838], *descr.* = *Sisyrinchium* Linn.
graminifolia Raf. op. cit. 30, *descr.* (*Sisyrinchium graminifolium* Lindl. Bot. Reg. 13: t. 1067. 1827). Chile.
maculata Raf. op. cit. 29, *descr.* (*Sisyrinchium graminifolium* Lindl. var. *pumilum* Lindl. Bot. Reg. 22: t. 1915. 1836). Chile.
***SISYRINCHIUM** Raf. New Fl. N. Am. 4:104. 1836 [1838], *sphalm.* = *Sisyrinchium* Linn.
SISYRINCHIUM Linn.
albidum Raf. Atl. Jour. 1:17. 1832, *descr.* Western Kentucky. (*S. versicolor* Bickn., 1899).
filiforme Raf. op. cit. 178. 1833, *descr.*; Herb. Raf. 25. 1833, *descr.*, non Spreng., 1825. Arkansas = *S. minus* Engl. & A. Gray.
***flexuosum** Raf. Atl. Jour. 65. 1840, *descr.* Arkansas, Texas.
***floridanum** Raf. op. cit. 66, *descr.* Florida.
***niveum** Raf. l.c., *descr.* Alabama, Kentucky = *S. albidum* Raf.
***tenuifolium** Raf. op. cit. 65, *descr.*, non Humb. & Bonpl., 1809. Arkansas, Texas = *S. langloisii* Greene.
teres Raf. Atl. Jour. 1:148, 1832, *descr.* Florida, Louisiana.
#STENILIS Raf. New Fl. N. Am. 2:92. 1836 [1837], *descr.*, subgen. *Iris* Linn.
***SYSYRINCHIUM** Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom. sphalm.* = *Sisyrinchium* Linn.
***album** Raf. l.c., *nom.* Kentucky = *Sisyrinchium albidum* Raf.
TAUMASTOS Raf. Fl. Tellur. 4:9. 1836 [1838], *descr.* = *Libertia* Spreng. (1825), *nom. conserv.* (Tekel Adans., 1763).
compressus Raf. op. cit. 10, *descr.* (*Libertia "iridea" [formosa]* Grah.; Hook. Bot. Mag. 61: t. 3294. 1834). Tierra del Fuego = *Libertia formosa* Grah.
TRICHONEMA Ker-Gawl. (1802) = *Romulea* Marat. (1772), *nom. conserv.* (Ilmu Adans., 1763).
***purpurascens** Raf. Chloris Aetn. 12. 1815, *nom.* (*Ixia purpurea* "Cyr." i.e., *Ixia purpurascens* Ten.). Sicily = *Romulea purpurascens* Tenore.

ZINGIBERACEAE

- ACINAX** Raf. Fl. Tellur. 4:53. 1836 [1838], *descr.* sub *Zingiber* (Type *Costus echinatus* Pers.) = *Amomum* Linn.
ALLAGAS Raf. Fl. Tellur. 4:53. 1836 [1838], *nom. nov.* *Hellenia* Willd. [*Hellenia allughas* Willd.] = *Alpinia* Roxb. (1819), non Linn., *nom. conserv.* (*Languas* Koenig 1783).
BOJERIA Raf. Fl. Tellur. 4:50. 1836 [1838], *descr.*, non DC. (1836) = *Phaeomeria* Lindl. (1836).
magnifica Raf. l.c., *descr.* (*Alpinia magnifica* Rosc.; Hook. Bot. Mag. 59: t. 3192. 1832). Mauritius = *Phaeomeria speciosa* (Blume) Koord. (*P. magnifica* K. Schum.).
DOXANTHES Raf. Fl. Tellur. 4:51. 1836 [1838], *nom. alt.* *Bojeria* Raf. (*Alpinia magnifica* Rosc.) = *Phaeomeria* Lindl. (1836).
***GLOBBARIA** Raf. Anal. Nat. Tabl. Univ. 197. 1815, *nom. nov.* [*Globba* Linn.] = *Globba* Linn.
SIPHOTRIA Raf. Fl. Tellur. 4:50. 1836 [1838], *descr.* = *Renealmia* Linn. f. (1781), *nom. conserv.* (*Alpinia* Linn., 1753).
squamosa Raf. l.c., *descr.* (*Alpinia tubulata* Rosc. Bot. Reg. 9: t. 777. 1824). Guiana = *Renealmia exaltata* Linn. f.
ZEDOARIA Raf. Fl. Tellur. 4:53. 1836 [1838], *nom. provis.* (Type, *Amomum zedoaria* Berg.) = *Curcuma* Linn.

CANNACEAE

- CANNA** Linn.
elegans Raf. Fl. Ludovic. 143. 1817, *descr.* (*Canna angustifolia* sensu Pursh; *C. glauca* sensu Walt.; *C. indica* sensu Bartr.). Louisiana = *Canna flaccida* Salisb.
XYPHOSTYLIS Raf. Fl. Tellur. 4:52. 1836 [1838], *descr.* = *Canna* Linn.
angustifolia Raf. l.c., *descr.* (*Canna angustifolia* Willd.). Florida, Louisiana.
lutea Raf. l.c., *descr.* (*Canna flaccida* Rosc.). Southeastern United States.

MARANTACEAE

- ENDOCODON** Raf. Fl. Tellur. 4:49. 1836 [1838], *descr.* = *Calathea* G. W. F. Mey. (1818).
zebrinum Raf. op. cit. 50, *descr.* (*Maranta zebrina* Sims, Bot. Mag. 44: t. 1926. 1817; Ker-Gawl. Bot. Reg. 5: t. 385. 1819). Brazil = *Calathea zebrina* (Sims) Lindl.
ILYTHURIA Raf. Fl. Tellur. 4:51. 1836 [1838], *descr.* = *Donax* Lour. (1790).
cannaformis Raf. l.c., *descr.* (*Thalia cannaeformis* Forst. f.). Pegu to Polynesia = *Donax cannaeformis* (Forst. f.) K. Schum.
MALACARYA Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.*, *nota*; Fl. Tellur. 4:52. 1836 [1838], *nom.* sub *Spirostylis biflora* Raf. = *Thalia* Linn.
dealbata Raf. Am. Monthly Mag. l.c., *nom.* (*Thalia dealbata* Fraser). Southeastern United States.
MARANTA Linn.
obliqua Raf. Atl. Jour. 1:80. 1832, *descr.* "Florida or Brazil," cult. Philadelphia (Bartram's garden).
PSYDARANTA Neck.; Raf. Fl. Tellur. 4:53. 1836 [1838], *descr.* = *Calathea* G. W. F. Mey. (1818).
comosa Raf. l.c., *descr.* (*Maranta comosa* Linn. f.). South America = *Calathea comosa* (Linn.) Lindl.
SPIROSTALIS Raf. ex. Jacks*. Ind. Kew. 2:967. 1895, *sphalm.* = seq.
biflora Raf. ex Jacks*. l.c. = seq.
***SPIROSTYLIS** Raf. Fl. Tellur. 4:51. 1836 [1838], *descr.* (*Malacarya* Raf.) = *Thalia* Linn.
biflora Raf. l.c., *descr.* (*Thalia dealbata* Rosc.). Carolina to Florida.
ZELMIRA Raf. Fl. Tellur. 4:50. 1836 [1838], *descr.* = *Calathea* G. W. F. Mey. (1818).
violacea Raf. l.c., *descr.* (*Calathea violacea* Lindl. Bot. Reg. 11: sub. t. 932, 1825, 12: t. 961 [962] 1826). Brazil.

BURMANNIACEAE

- NEMITIS** Raf. Fl. Tellur. 4:33. 1836 [1838], *descr.*, *nom. nov.*
Apteria Nutt.
setacea Raf. l.c., *descr.*, Aut. Bot. 64. 1840, *nom.* (*Apteria setacea* Nutt.). Alabama, Florida = *Apteria aphylla* (Nutt.) Barnhart.

ORCHIDACEAE *

- ACHROANTHES** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*; op. cit. 4:195. 1819, *nom.*, *nota* (*Malaxis Soland. ex Sw. subgen. Microstylis* Nutt.); Herb. Raf. 73. 1833, *nom.* (*Malaxis Soland. ex Sw. subgen. Microstylis* Nutt. 1818); Loud. Gard. Mag. 8:247. 1832, *nom.* (*Malaxis Solander. ex Sw. subgen. Microstylis* Nutt.), iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833 = *Microstylis* (Nutt.) Eaton, Man. ed. 3, 353. 1822; Lindl. (1826, 1830) = *Malaxis Soland. ex Sw.* (1788).
acuminata Raf. ex Jacks*. Ind. Kew. 1:25. 1893 (*Microstylis brachypoda* A. Gray). New York = *Malaxis brachypoda* (A. Gray) Fernald, Rhodora 28:176. 1928; 35:242. t. 253. f. 1-4. 1933.
cilifolia Raf. ex Jacks*. l.c. [*Ophrys liliifolia* Linn.]. Europe = *Liparis liliifolia* L. C. Rich. = *Malaxis monophyllos* (Linn.) Sw.
laxiflora Raf. ex Jacks*. l.c. (*Acroanthes unifolia* Raf.; *Malaxis unifolia* Michx.; *M. ophioglossoides* Muhl.; *Microstylis ophioglossoides* Nutt.). New York to Carolina = *Microstylis unifolia* Britton, Sterns & Poggenb. = *Malaxis unifolia* Michx.
obtusifolia Raf. ex Jacks*. l.c. (*Acroanthes obtusifolia* Raf.). Alabama, Georgia = *Malaxis unifolia* Michx.
unifolia Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.* (*Malaxis unifolia* Michx.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.*; North America = *Microstylis unifolia* Britton, Sterns & Poggenb. = *Malaxis unifolia* Michx.

* The reductions of those species native of North America north of Mexico in general follow Ames, O. An Enumeration of the Orchids of the United States and Canada. i-vii. 1-120. 1924, but unfortunately a very considerable number of Rafinesque binomials and some generic names based on actual United States specimens are not accounted for in that work.

- *ACHROANTHUS** Raf. ex Britten, Jour. Bot. 38:227. 1900, *nom.* (*Malaxis Soland. ex Sw.*, subgen. *Microstylis* Nutt. 1818) = *Achroanthes* Raf., 1808 = *praec.*
ACROANTHES Raf. Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.* (*Malaxis Soland. ex Sw. subgen. Microstylis* Nutt. 1818); New Fl. N. Am. 1:58. 1836, *descr.* (*Malaxis Soland. ex Sw. subgen. Microstylis* Nutt. 1818); op. cit. 4:103. 1836 [1838], *nom.*, *nota*; Fl. Tellur. 3:7. 1836 [1837], *nom.*, *nota* (*Malaxis Soland. ex Sw. subgen. Microstylis* Nutt. 1818); op. cit. 4:49. 1836 [1838], *nom.*, *nota*; Good Book 44, 1840, *nom.* = *praec.*
acuminata Raf. New Fl. N. Am. 1:59. 1836, *descr.* (*Microstylis brachypoda* A. Gray). New York = *Achroanthes acuminata* Raf. = *Malaxis brachypoda* (A. Gray) Fernald.
**cilifolia* Raf. l.c., *descr.* (*Ophrys "cilifolia" sphalm.* [*O. liliifolia* Linn.]; *O. monophyllos* Linn.; *Malaxis liliifolia* Sw.; *Microstylis monophyllos* Lindl.). Europe = *Malaxis monophyllos* (Linn.) Sw.
**laxiflora* Raf. op. cit. 58, *descr.* (*Malaxis unifolia* Michx.; *M. ophioglossoides* Muhl.; *Microstylis ophioglossoides* Nutt.). New York to Carolina = *Achroanthes laxiflora* Raf. = *Microstylis unifolia* Britton, Sterns & Poggenb. = *Malaxis unifolia* Michx.
**obtusifolia* Raf. l.c., *descr.* Alabama, Georgia = *Achroanthes obtusifolia* Raf. = seq.
**unifolia* Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Malaxis unifolia* Michx.). North America = *Achroanthes unifolia* Raf. = *Microstylis unifolia* Britton, Sterns & Poggenb. = *Malaxis unifolia* Michx.
ADIPE Raf. Fl. Tellur. 2:101. 1836 [1837], *descr.* = *Bifrenaria* Lindl. (1843).
fulva Raf. l.c., *nom. alt.* *Adipe racemosa* Raf. Brazil = seq.
racemosa Raf. l.c., *descr.* (*Maxillaria racemosa* Hook. Bot. Mag. 54: t. 2789. 1827). Brazil = *Bifrenaria racemosa* (Hook.) Lindl.
ADNULA Raf. Fl. Tellur. 2:87. 1836 [1837], *descr.* = *Pelexia* Poit. (1818).
petiolaris Raf. l.c., *descr.* (*Neottia adnaria* Raf. [*N. adnata* Sw.]). West Indies = *Pelexia adnata* (Sw.) Spreng.
ANISTYLIS Raf. Neogen. 4. 1825, *descr.*; Herb. Raf. 74. 1833, *descr.*; Fl. Tellur. 4:48. 1836 [1838], *descr.*; Loud. Gard. Mag. 8:247. 1832, *nom.* (*Liparis sensu* Lindl.), iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38: 227. 1900 = *Liparis* L. C. Rich. (1818), *nom. conserv.* (*Leptorkis* Thou., 1809).
convallaria Raf. Neogen. l.c., *nom.* (*Malaxis liliifolia* auct. Am.); Fl. Tellur. l.c., *nom.* (*Malaxis liliifolia* auct. Am.). North America = *Liparis liliifolia* (Linn.) L. C. Rich.
lutea Raf. l.c., *nom.* (*Malaxis correana* Barton; *M. loeselii* auct. Am.). North America = *Liparis loeselii* (Linn.) L. C. Rich.
ANTHERICLIS Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom. nov.* *Tipularia* Nutt.; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.* (*Tipularia* Nutt.) = *Tipularia* Nutt. (1818).
***ANTHOGAYAS** Raf. Fl. Tellur. 4:44. 1836 [1838], sub *Hecabe* Raf., *nom. nov.* *Gyas* Salisb.
APLECTRA Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* = *Aplectrum* [Nutt.] Torr. (1826).
elatior Raf. l.c., *nom.* (*Cymbidium hyemale* Muhl.). Kentucky = *Aplectrum hyemale* (Muhl.) Torr.
**montana* Raf. l.c., *nom.* Kentucky. Prob. = *praec.*
APLECTRUM (Nutt.) Torr. Comp. Fl. North Mid. States 322. 1826 [*Corallorhiza* Chatel., subgen. *Aplectrum* Nutt. Gen. 2:197. 1818].
**crenatum* Raf. Herb. Raf. 75. 1833, *descr.* Appalachian Mountains = *A. hyemale* (Muhl.) Torr.
**lutescens* Raf. Med. Fl. 1:145. 1828, *nom.*, iter. Man. Med. Bot. 145. 1841; Casket 1830:138. 1830, *nom.*, *nota*; Herb. Raf. 63, *nom.*, 75, *descr.*, 1833. Western Kentucky = *A. hyemale* (Muhl.) Torr.
**unguiculatum* Raf. Herb. Raf. 75. 1833, *descr.* (*Corallorhiza hyemalis* sensu Ell.). Carolina = *Aplectrum hyemale* (Muhl.) Torr.
BLEPHARIGLOTIS Raf. Fl. Tellur. 2:38. 1836 [1837], *descr.* = *Habenaria* Willd. (1805).
albiflora Raf. l.c., *descr.* (*Orchis blephariglottis* Willd.; *Habenaria blephariglottis* Hook.; *Orchis ciliaris* Linn., var. *alba* Michx.). North America = *Habenaria blephariglottis* (Willd.) Hook.
bicolor Raf. op. cit. 39, *descr.* New Jersey = *praec.*

- cristata* Raf. l.c., *descr.* (*Orchis cristata* Michx.). Virginia to Florida=*Habenaria cristata* (Michx.) R. Br.
- flaviflora* Raf. l.c., *descr.* (*Orchis ciliaris* Linn.: *Habenaria ciliaris* R. Br.). North America=*Habenaria ciliaris* (Linn.) R. Br.
- longicornis* Raf. op. cit. 38, *descr.* Alabama, Louisiana=*Habenaria blephariglottis* (Willd.) Hook.
- BLETIANA** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov.* *Bletia* R. Br.
- #BULBODICTIS** Raf. Fl. Tellur. 4:45. 1836 [1838], *descr.*, subgen. *Cochleanthes* Raf. (Type, *Epidendrum fragrans* Sw.)=*Epidendrum* Linn.
- CALIPOGON** Raf. Atl. Jour. 1:148. 1832, *nom.*=*Calopogon* R. Br. (1813).
- **parviflorus* Raf. l.c., *descr.* Florida, Louisiana=*Calopogon barbatus* (Walt.) Ames; see Fernald, *Rhodora* 48:11. 1946.
- CALOPOGON** R. Br.
- parviflorus* Raf. ex Jacks*. Ind. Kew. 1:392. 1892 (*Calipogon parviflorus* Raf.). Florida, Louisiana=praec.
- CAULARTHON** Raf. Fl. Tellur. 2:40. 1836 [1837], *descr.*=*Diacrium* Benth. (1881).
- bicornutum* Raf. op. cit. 41, *descr.* (*Epidendrum bicornutum* Hook. Bot. Mag. 61: t. 3332. 1834). Trinidad=*Diacrium bicornutum* (Hook.) Benth.
- umbellatum* Raf. l.c., *descr.* (*Epidendrum* ? *stenopetalum* Hook. Bot. Mag. 62: t. 3410. 1835). Jamaica=*Epidendrum stenopetalum* Hook.
- †**CLADORHIZA** Raf. Am. Monthly Mag. Crit. Rev. 1:429. 1817, *nom. nov. provis.* (*Cymbidium corallorrhizon* sensu Eaton); Med. Fl. 1:145. 1828, *nom.* (*Corallorrhiza*), iter. Man. Med. Bot. 145. 1841=*Corallorrhiza* Chatelain (1760).
- **maculata* Raf. Am. Monthly Mag. Crit. Rev. l.c., *nom.* North America=*Corallorrhiza maculata* Raf. (1817) (*C. multiflora* Nutt., 1823).
- COCHLEANTHES** Raf. Fl. Tellur. 4:45. 1836 [1838], *descr.*=*Zygopetalum* Hook. (1827).
- fragrans* Raf. l.c., *descr.* (*Zygopetalum cochleare* Lindl. Bot. Reg. 22: t. 1857. 1836). Trinidad.
- COILOSTYLIS** Raf. Fl. Tellur. 4:37. 1836 [1838], *descr.*=*Epidendrum* Linn.
- emarginata* Raf. l.c., *descr.* (*Epidendrum ciliare* Linn.; Curtis Bot. Mag. 13: t. 463. 1799; *E. cuspidatum* Lodd. Bot. Cab. 1: t. 10. 1818; Ker-Gawl. Bot. Reg. 10: t. 783. 1824). West Indies=*Epidendrum ciliare* Linn.
- obtusifolia* Raf. l.c., *descr.* (*Epidendrum lineare* Jacq.). West Indies=*Ischilus linearis* (Jacq.) R. Br.
- COLAX** Lindl. ex Spreng.
- grandiflorus* Raf. Fl. Tellur. 2:85. 1836 [1837], in obs., *nom. nov. provis.* *Colax harrisoniae* Lindl. South America=*Bifrenaria harrisoniae* (Hook.) Reichb. f.
- harrisoni* Raf. l.c., *descr.* (*Colax harrisoniae* Lindl.; *Dendrobium harrisoniae* Hook. Exot. Fl. 2: t. 120. 1825; *Maxillaria harrisoniae* Lindl. Bot. Reg. 11: t. 897. 1825; Hook. Bot. Mag. 56: t. 2927. 1829). South America=*Bifrenaria harrisoniae* (Hook.) Reichb. f.
- ***CORALLORHIZA** Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *nom.*=*Corallorrhiza* Chatelain (1760) (*Corallorrhiza* R. Br.).
- **maculata* Raf. l.c., *descr.*; Fl. Ludovic. 170. 1817, *nom.* Long Island=*Corallorrhiza maculata* Raf. (*C. multiflora* Nutt., 1832).
- **montana* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.
- CORALLORHIZA** Chatelain; Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*, *nota* (*Corallorrhiza* R. Br.).
- **montana* Raf. Herb. Raf. 67. 1833, *descr.* Wasioto Mountains=*C. odontorrhiza* (Willd.) Nutt.; see Fernald, *Rhodora* 48:12. 1946.
- **unguiculata* Raf. op. cit. 63, *nom.*, 75, *descr.* 1833. Western Kentucky. Prob.=praec.
- CORDULA** Raf. Fl. Tellur. 4:46. 1836 [1838], *descr.*; cf. Rolfe, *Orchid Rev.* 20:2. 1912=*Paphiopedilum Pfitz.* (1886), *nom. conserv.* (*Cordula* Raf., 1838; *Stimegas* Raf., 1838).
- insignis* Raf. l.c., *descr.* (*Cypripedium insignis* Wall. ex Hook. Exot. Fl. 1:34. t. 34. 1823; Lodd. Bot. Cab. 14: t. 1321. 1828; Hook. Bot. Mag. 62: t. 3412. 1835). Nepal=*Paphiopedilum insignis* (Wall.) Pfitz. (*Paphiopedilum insignis* Kerch.).
- CRIOsANTHES** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.* (*Cypripedium arietinum* Ait.); op. cit. 4:195. 1819, *nom.* (*Cypripedium arietinum* Ait.); Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *descr.* (*Cypripedium arietinum* Ait.); Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.* (*Cypripedium arietinum* Ait.); Herb. Raf. 43, 44. 1833, *nom.*; Fl. Tellur. 4:45. 1836 [1838], *nom.*, *nota*; op. cit. 46, *descr.*=*Arietinum* Beck (1833)=*Cypripedium* Linn.
- borealis* Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov.* *Cypripedium arietinum* Ait. (*Arietinum americanum* Beck, 1833; *Criosanthes arietinum* House, 1905). Eastern North America=*Cypripedium arietinum* Ait.
- parviflora* Raf. Fl. Tellur. 4:46. 1836 [1838], *descr.* (*Arietinum americanum* Beck; *Cypripedium arietinum* Ait.). Canada, Vermont=praec.
- CUCULINA** Raf. Fl. Tellur. 4:49. 1836 [1838], *nom. nov.* *Mona-canthus* Lindl. (1832)=*Catasetum* Rich. (1822).
- CYMBIDIUM** Sw.
- **corallorrhizon* Eaton, Man. 98. 1817, *descr.*; Raf. Am. Monthly Mag. Crit. Rev. 1:429. 1817, *nom.* [*Cymbidium corallorrhiza* Sw.]. Europe, North America=*Corallorrhiza trifida* Chatelain.
- CYPRIPEDIUM** Linn.
- **assurgens* Raf. Herb. Raf. 76. 1833, *descr.* Wasioto (Cumberland) Mountains.
- **aureum* Raf. l.c., *descr.* Wasioto (Cumberland) Mountains.
- bifidum* Raf. Atl. Jour. 1:178. 1833, *descr.*; Herb. Raf. 25. 1833, *descr.* Arkansas=*C. parviflorum* Salisb.
- **catesbianum* Raf. Herb. Raf. 44. 1833, *descr.* ("Calceolus, Catesby, 2 tab. 103"). Canada=*C. acaule* Ait.
- **furcatum* Raf. op. cit. 76, *descr.* Tennessee.
- **gibbosum* Raf. Herb. 43. 1833, *nom. alt.* *C. bifidum* Raf. l.c. Arkansas=*C. parviflorum* Salisb.
- †*luteum* Raf. Med. Fl. 1:140. t. 30. 1828, *descr.*, iter. Man. Med. Bot. 140. t. 30. 1841; Herb. Raf. 43. 1833, *nom.*, *sphalm.* "lateum." Eastern North America=*C. parviflorum* Salisb.
- var. *angustifolium* Raf. Med. Fl. 1:142. 1828, *descr.*, iter. Man. Med. Bot. 142. 1841.
- biflorum* Raf. l.c., *descr.*
- concolor* Raf. l.c., *descr.*
- glabrum* Raf. l.c., *descr.*
- grandiflorum* Raf. l.c., *descr.*
- maculatum* Raf. l.c., *descr.*
- parviflorum* Raf. l.c., *descr.*
- pubescens* Raf. l.c., *descr.*
- **truncatum* Raf. Herb. Raf. 43. 1833, *descr.*; Life of Travels 104. 1836, *nom.* Appalachian Mountains of Virginia.=*C. parviflorum* Salisb. var. *pubescens* (Willd.) Knight.
- **undatum* Raf. Herb. Raf. 77. 1833, *descr.* Appalachian Mountains.
- **vittatum* Raf. op. cit. 43, *descr.* (*Calceolus* Catesby, Nat. Hist. Carol. 2:72, 73. t. 72, 73. 1743)=*C. parviflorum* Salisb. var. *pubescens* (Willd.) Knight.
- var. *planum* Raf. op. cit. 44, *descr.* (*Helleborine* Catesby, op. cit. t. 72). Pennsylvania.
- tortile* Raf. l.c., *descr.* (*Calceolus marianus glaber* Catesby, op. cit. t. 72 [73]). Pennsylvania to Carolina.
- DENDROBIUM** Sw. (1799) *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).
- **emulium* Raf. Fl. Tellur. 2:95. 1836 [1837], *nom.*=*Dendrobium aemulium* R. Br. Australia.
- DEPPIA** Raf. Fl. Tellur. 2:51. 1836 [1837], *descr.*=*Lycaste* Lindl. (1843).
- mexicana* Raf. l.c., *descr.* (*Maxillaria deppii* Lodd. Bot. Cab. 17: t. 1612. 1830; Hook. Bot. Mag. 62: t. 3395. 1835). Mexico=*Lycaste deppii* (Lodd.) Lindl.
- DICORPHYLLA** Raf. Fl. Tellur. 4:39. 1836 [1838], *descr.*=*Haemaria* Lindl. (1826).
- elegans* Raf. l.c., *descr.* (*Goodyera discolor* Ker-Gawl. Bot. Reg. 4: t. 271. 1818). "Brazil" [Southeastern China]=*Haemaria discolor* (Ker-Gawl.) Lindl.
- DIDOTHION** Raf. Fl. Tellur. 4:39. 1836 [1838], *descr.*=*Epidendrum* Linn.
- clavatum* Raf. l.c., *descr.* (*Epidendrum clavatum* Lindl. Bot. Reg. 22: t. 1870. 1836, non Koenig). Tropical America=*Epidendrum purpurascens* Focke.
- DIGOMPHOTIS** Raf. Fl. Tellur. 2:37. 1836 [1837], *descr.*=*Habenaria* Willd. (1805).
- cordata* Raf. l.c., *descr.* (*Habenaria cordata* R. Br.; Hook. Bot. Misc. 1: t. 55. 1830; Hook. Bot. Mag. 59: t. 3164. 1832). Portugal=*Satyrium diphyllum* Link.
- undulata* Raf. l.c., *descr.* (*Habenaria goodyeroides* D. Don; Hook. Bot. Mag. 62: t. 3397. 1835). India=*Habenaria goodyeroides* D. Don, et quoad Bot. Mag. t. 3397, H. wightii Trimen.

- DILOMILIS** Raf. Fl. Tellur. 4: 43. 1836 [1838], *descr.*=*Octadesmia* Benth. (1881).
serrata Raf. l.c., *descr.* (*Octomeria serratifolia* Hook. Bot. Mag. 55: t. 2823. 1828). Brazil=*Octadesmia serratifolia* (Hook.) Benth.
- ***DIOTHILOPHIS** Raf. ex. Schlecht. Orch. 190. 1914, *nom. in syn.*, *sphalm.*=*Dothilophis* Raf.=*Epidendrum* Linn.
- DIPHRYLLUM** Raf. Med. Repos. II. 5:357. 1808, *descr.*; Jour. Bot. (Paris) 1:220. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:173, 268. 1818, *nom.*; op. cit. 4:195. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.*, *nota*; Herb. Raf. 74. 1833, *nom.*, *nota*; Fl. Tellur. 4:48. 1836 [1833], *nom.*, *nota*, ut subgen. *Anistylis* Raf.=*Listera* R. Br. (1813), *nom. conserv.* (*Diphryllum* Raf., 1808).
bifolium Raf. Med. Repos. II. 5:357. 1808, *descr.*; Jour. Bot. (Paris) 1:220. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* New Jersey, Pennsylvania=*Listera bifolia* (Raf.) Jacks*. Ind. Kew. 1:769. 1893, sub *Diphryllum* Raf. An *Listera australis* Lindl.? (1840).
- ***DIPHYLLUM** Raf. Herb. Raf. 73. 1833, *nom.*, *nota*=*Diphryllum* Raf.=*Listera* R. Br. (1813), *nom. conserv.*
- DIPLANTHERA** Raf. Herb. Raf. 73. 1833, *nom.*, *nota* sub *Criosanthes* Raf. (*Platanthera* L. C. Rich.), non Thouars (1806), nec Banks & Solander (1810)=*Platanthera* L. C. Rich. (1818)=*Habenaria* Willd. (1805).
- DIPLECTRADEN** Raf. Fl. Tellur. 2:90. 1836 [1837], *descr.*=*Habenaria* Willd. (1805).
leptoceras Raf. l.c., *descr.* (*Habenaria leptoceras* Hook. Bot. Mag. 54: t. 2726. 1827). South America.
- DITEILIS** Raf. Herb. Raf. 73. 1833, *descr.*=*Liparis* L. C. Rich. (1818), *nom. conserv.* (*Leptorkis* Thou., 1809).
nepalensis Raf. l.c., *nom.* (*Liparis bituberculata* Lindl.). India.
- DITULIS** Raf. Fl. Tellur. 4:49. 1836 [1838], *descr.*=*Liparis* L. C. Rich. (1818), *nom. conserv.* (*Leptorkis* Thou., 1809).
nepalensis Raf. l.c., *nom.* (*Liparis bituberculata* Lindl.). India.
- DITULIMA** Raf. Fl. Tellur. 4:41. 1836 [1838], *descr.*=*Dendrobium* Sw. (1709), *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).
anceps Raf. l.c., *descr.* (*Dendrobium anceps* Sw.; Lindl. Bot. Reg. 15: t. 1239. 1829). Bengal, Pegu.
- DOTHILIS** Raf. Fl. Tellur. 2:60. 1836 [1837], *descr.*=*Chloraea* Lindl. (1827) (*Ulantha* Hook. 1830).
grandiflora Raf. l.c., *descr.* (*Neottia* ? *grandiflora* Hook. Bot. Mag. 57: t. 2956. 1829 (non *Neottia grandiflora* (Lindl.) Hook. op. cit. 54: t. 2730. 1827). West Indies (Saint Vincent)=*Chloraea ulantha* Rolfe.
- DOTHILOPHIS** Raf. Fl. Tellur. 4:39. 1836 [1838], *descr.*=*Epidendrum* Linn.
purpurea Raf. l.c., *descr.* (*Epidendrum skinneri* Batem. ex Lindl. Bot. Reg. 22: t. 1881. 1836). Guatemala.
- DOXOSMA** Raf. Fl. Tellur. 4:9. 1836 [1838], *descr.*=*Epidendrum* Linn.
gracilis Raf. l.c., *descr.* (*Epidendrum gracile* Lindl. Bot. Reg. 21: t. 1765. 1835). Bahamas.
- ELTROPECTRIS** Raf. Fl. Tellur. 2:51. 1836 [1837], *descr.*=*Pelexia* Pit. ex L. C. Rich. (1818).
acuminata Raf. l.c., *descr.* (*Neottia calcarata* Sw.; Hook. Bot. Mag. 62: t. 3403. 1835; *Stenorrhynchus calcaratus* L. C. Rich.). West Indies=Pelexia setacea Lindl. (1840), et quoad syn. Sw. et L. C. Rich., *P. calcarata* (Sw.) Cogn.
- ENDEISA** Raf. Fl. Tellur. 2:52. 1836 [1837], *descr.*=*Dendrobium* Sw. (1799), *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).
flava Raf. l.c., *descr.* (*Dendrobium densiflorum* Wall.; Hook. Bot. Mag. 62: t. 3418. 1835). Nepal.
- ENOTHREA** Raf. Fl. Tellur. 4:43. 1836 [1838], *descr.*=*Octomeria* R. Br. (1813).
graminifolia Raf. op. cit. 44, *descr.* (*Epidendrum graminifolium* Linn.; *Dendrobium graminifolium* Willd.; *Octomeria graminifolia* R. Br.; Hook. Bot. Mag. 54: t. 2764. 1827). West Indies=*Octomeria graminifolia* (Linn.) R. Br.
- EPIDENDRUM** Linn.
**emulum* Raf. Fl. Tellur. 4:45. 1836 [1838], *nom.*=*E. aemulum* Lindl.=*E. fragrans* Sw. Tropical America.
**lanceanum* Raf. Fl. Tellur. 4:41. 1836 [1838], *nom. sub.* *Lophiaris* Raf.=*Oncidium lanceanum* Lindl. Bot. Reg. 22: t. 1887. 1836. Guiana.
- EPIPACTIS** Adans.
atropurpurea Raf. Car. Nuov. Gen. Sp. Sicil. 87. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; *Chloris Aetn.* 12. 1815, *nom.* Sicily=? *Cephalanthera rubra* L. C. Rich.
- ***EPIPACTIS** Raf. Fl. Tellur. 2:40. 1836 [1837], *nom. sub.* *Plectrurus* Raf. (Type *Orchis abortiva* Linn.), non Sw., nec Adans.=*Limodorum* L. C. Rich. 1818, *nom. conserv.*, non *Limodorum* Linn. 1753 (*Centrosis* Sw., 1829; *Ionorchis* G. Beck, 1890; *Lesquetia* Bubani, 1901).
- ERIOXANTHA** Raf. Loud. Gard. Mag. 8:247. 1832, *nom. nov.* *Eria* Lindl., iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900=*Eria* Lindl. (1825), *nom. conserv.* (*Pinalia* Buch.-Ham., 1825).
- EXERIA** Raf. Fl. Tellur. 4:49. 1836 [1838], *nom. nov.* *Eria* Lindl. (1825), *nom. conserv.* (*Pinalia* Buch.-Ham., 1825).
- EXOPHYA** Raf. Fl. Tellur. 2:63. 1836 [1837], *descr.*=*Epidendrum* Linn.
fuscata Raf. l.c., *descr.* (*Encyclia patens* Hook. Bot. Mag. 57: t. 3013. 1830). Brazil=*Epidendrum odoratissimum* Lindl.
- FROSCULA** Raf. Fl. Tellur. 4:44. 1836 [1838], *descr.*=*Dendrobium* Sw. (1799), *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).
hispidia Raf. l.c., *descr.* (*Dendrobium longicornu* Lindl. Bot. Reg. 16: t. 1315. 1830). Nepal.
- GALEARIS** Raf. Herb. Raf. 71. 1833, *descr.*; Fl. Tellur. 2:39. 1836 [1837], *descr.*=*Cypripedium* Linn. (*Galeorchis* Rydb., 1901).
biflora Raf. Herb. Raf. 72. 1833, *descr.*; Fl. Tellur. l.c., *nom.* Alleghany Mountains, Pennsylvania=*Cypripedium spectabile* Salisb. vel *C. reginae* Walt. (1788).
var. uniflora Raf. l.c., *descr.*, *nom.*
spectabilis Raf. ll.c., *descr.*, *nom.* (*Orchis spectabilis* Linn.). Kentucky, Ohio=*Cypripedium spectabile* (Linn.) Salisb. (*Galeorchis spectabilis* Rydb.).
- GAMARIA** Raf. Fl. Tellur. 4:49. 1836 [1838], *nom.*, *nota*=*Disa* Berg. (1767).
cornuta Raf. ex Jacks*. Ind. Kew. 1:997. 1893, *nom.* (*Disa cornuta* Sw.). South Africa.
- GEOBINA** Raf. Fl. Tellur. 4:49. 1836 [1838] sub *Acroanthes*, *nom. nov.* *Georchis* Lindl.=*Goodyera* R. Br. (1813).
- ***GIROSTACHYS** Raf. Fl. Tellur. 2:87. 1836 [1837], *nom.*=*Gyrostachys* Pers. (1807)=*Spiranthes* L. C. Rich. (1818), *nom. conserv.* (*Gyrostachys* Pers., 1807; *Ibidium* Salisb., 1812).
- GOODYERA** R. Brown (1813), *nom. conserv.* (*Epipactis* Boehm., 1760; *Peramium* Salisb., 1812).
**oblongifolia* Raf. Herb. Raf. 76. 1833, *descr.* Rocky Mountains or Oregon. (*Spiranthes decipiens* Hook., 1839; *Goodyera menziesii* Lindl., 1840; *G. decipiens* F. T. Hubb., 1923); see Fernald, *Rhodora* 48:11. 1946.
- GYNIZODON** Raf. Fl. Tellur. 4:40. 1836 [1838], *descr.*=*Miltonia* Lindl. (1837), *nom. conserv.* (*Gynizodon* Raf., 1838).
russelianum Raf. l.c., *descr.* (*Oncidium russelianum* Lindl. Bot. Reg. 22: t. 1830. 1836). Brazil=*Miltonia russelliana* Lindl.
- HABENARIA** Willd.
**claytoni* Raf. Herb. Raf. 74. 1833, *descr.* Kentucky.
crocea Raf. Atl. Jour. 1:119. 1832, *nom. alt.* *Orchis crocea* Raf.; Herb. Raf. 74. 1833, *descr.* Maryland (near Baltimore).
**glaresa* Raf. Atl. Jour. 1:150. 1832, *sphalm.*, *nom. alt.* *Orchis glareosa* Raf. Western Kentucky=*Habenaria flava* (Linn.) R. Br.
**glareola* Raf. Herb. Raf. 74. 1833, *nom.*, *sphalm.* [*Orchis glareosa* Raf.]. Western Kentucky=*Habenaria flava* (Linn.) R. Br.
**maritima* Raf. Herb. Raf. 74. 1833, *descr.* Sea islands of New Jersey=*Habenaria clavellata* (Michx.) Spreng.; see Fernald, *Rhodora* 48:10. 1946.
racemosa Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.* New York, near Fishkill.
- HECABE** Raf. Fl. Tellur. 4:44. 1836 [1838], *descr.*=*Phaius* Lour. (1790).
lutea Raf. l.c., *descr.* (*Bletia woodfordii* Hook. Bot. Mag. 54: t. 2719. 1827). Trinidad (cult.)=*Phaius woodfordii* (Hook.) Merr. Jour. Arnold Arb. 29:211. 1948 (*Phaius maculata* Lindl.).
- HEXALECTRIS** Raf. Neogen. 4. 1825, *descr.*; Fl. Tellur. 4:48. 1836 [1838], *descr.*
†*aphylla* Raf. ex S. Wats. & Coult. in A. Gray, Manual, ed. 6, 501. 1890. (*Arethusa spicata* Walt.; *Bletia aphylla* Nutt.). Eastern North America=*Hexalectris spicata* (Walt.) Barnh.

- squamosa* Raf. Fl. Tellur. 4:48. 1836 [1838], *descr.* (*Arethusa spicata* Walt.; *Bletia aphylla* Nutt.). Florida=praec.
- ***HEXALETIS** Raf. Herb. Raf. 74. 1833, *nom.*, *sphalm.*=praec.
- IEBINE** Raf. Fl. Tellur. 4:39. 1836 [1838], *descr.*=*Liparis* L. C. Rich. (1818), *nom. conserv.* (*Leptorkis* Thou., 1809).
- nervosa* Raf. l.c., *descr.* (*Ophrys nervosa* Thunb.). Japan=*Liparis nervosa* (Thunb.) Lindl.
- †**ISOTRIA** Raf. Med. Repos. II. 3:422. 1806, *nom.*; op. cit. II. 5:357. 1808, *descr.*; Jour. Bot. (Paris) 1:220. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:286. 1818, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.*, *nota*; Herb. Raf. 72. 1833, *nom.*, *nota*; Fl. Tellur. 4:47. 1836 [1838], *descr.*
- medeoloides* Raf. Fl. Tellur. 4:47. 1836 [1837], *descr.* (*Arethusa medeoloides* Pursh). New Jersey=*Isotria verticillata* (Muhl.) Raf. (*Pogonia verticillata* Nutt.).
- †*verticillata* Raf. Med. Repos. II. 3:422. 1806, *nom.*; op. cit. II. 5:357. 1808, *descr.*; Jour. Bot. (Paris) 1:220. 1809, *descr.*; Fl. Tellur. 4:47. 1836 [1838], *descr.* (*Arethusa* et *Pogonia* auct.); Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* Pennsylvania (*Pogonia verticillata* Nutt.).
- JENSOA** Raf. Fl. Tellur. 4:38. 1836 [1838], *descr.*=*Cymbidium* Sw. (1799).
- ensata* Raf. l.c., *descr.* (*Epidendrum ensifolium* Linn.; *Limodorum ensatum* Thunb.). Japan=*Cymbidium ensifolium* (Linn.) Sw.
- JIMENSIA** Raf. Fl. Tellur. 4:38. 1836 [1838], *descr.*=*Bletilla* Reichb. f. (1851-53).
- nervosa* Raf. l.c., *descr.* (*Limodorum striatum* Thunb.). Japan=*Bletilla striata* (Thunb.) Reichb. f.
- LARNANDRA** Raf. Neogen. 4. 1825, *descr.*; Herb. Raf. 74. 1833, *nom.*; Fl. Tellur. 2:40. 1836 [1837], *descr.*=*Amphiglottis* Salisb. (1812)=*Epidendrum* Linn.
- conopsea* Raf. Fl. Tellur. 2:40. 1836 [1837], *descr.* (*Epidendrum conopseum* R. Br.; Hook. Bot. Mag. 62: t. 3457. 1835). Southeastern United States=*Epidendrum conopseum* R. Br. (*Amphiglottis conopsea* Small).
- magnolia* Raf. ex Jacks*. Ind. Kew. 2:31. 1894 (*Epidendrum magnoliae* Muhl.). Carolina=*Epidendrum conopseum* R. Br.
- LOPHIARIS** Raf. Fl. Tellur. 4:40. 1836 [1838]=*Oncidium* Sw. (1800).
- fragrans* Raf. op. cit. 41, *descr.* (*Oncidium lanceanum* Lindl. Bot. Reg. 22: t. 1887. 1826). Guiana.
- LOPHOGLOTIS** Raf. Fl. Tellur. 4:49. 1836 [1838], *nom. nov.* *Sophronia* Lindl. (1828), non Licht. (1817)=*Sophronitis* Lindl. (1828).
- LYSIMNIA** Raf. Fl. Tellur. 4:43. 1836 [1838], *descr.*=*Brassavola* R. Br. (1813).
- bicolor* Raf. l.c., *descr.* (*Brassavola cordata* Lindl. Bot. Reg. 22: t. 1914. 1836). Brazil.
- MATURNA** Raf. Fl. Tellur. 2:99. 1836 [1837], *descr.*=*Gomesa* R. Br. (1815).
- suaveolens* Raf. l.c., *descr.* (*Pleurothallis foliosa* Hook. Bot. Mag. 54: t. 2746. 1827). Brazil=*Gomesa foliosa* (Hook.) Klotzsch.
- MELICLIS** Raf. Fl. Tellur. 2:99. 1836 [1837], *descr.*=*Coryanthes* Hook. (1831).
- speciosa* Raf. op. cit. 100, *descr.* (*Gongora speciosa* Hook. Bot. Mag. 54: t. 2755. 1827). Brazil=*Coryanthes speciosa* (Hook.) Hook.
- MENADENA** Raf. Fl. Tellur. 2:98. 1836 [1837], *descr.*=*Maxillaria* Ruiz & Pavon (1794).
- parkeri* Raf. op. cit. 99, *descr.* (*Maxillaria parkeri* Hook. Bot. Mag. 54: t. 2729. 1827). Demerara.
- MENADENIUM** Raf. Fl. Tellur. 4:45. 1836 [1838], *nom. subnud.*, sub *Cochleanthes* Raf.=*Zygopetalum* Hook. (1827).
- rostratum* Raf. ex Jacks*. Ind. Kew. 2:205. 1894 (*Zygopetalum rostratum* Hook. Bot. Mag. 55: t. 2819. 1828). Demerara.
- MENEPHORA** Raf. Fl. Tellur. 4:46. 1836 [1838], *descr.*=*Paphiopedilum* Pfitz. (1886), *nom. conserv.* (*Cordula* Raf., 1838; *Stimegas* Raf., 1838).
- bicolor* Raf. l.c., *descr.* "Borneo and Java, seen alive in gardens."
- MESICERA** Raf. Neogen. 4. 1825, *descr.*; Herb. Raf. 72. 1833, *descr.*; Fl. Tellur. 2:39. 1836 [1837], *descr.*=*Habenaria* Willd. (1805).
- †*michauxii* Raf. Herb. Raf. 72. 1833, *descr.* (*Orchis quinqueseta* Michx.); Fl. Tellur. 2:39. 1836 [1837], *nom.* (*Orchis quinqueseta* Michx.). North America=*Habenaria michauxii* Nutt.=*H. quinqueseta* (Michx.) Eaton, Man. ed. 5, 235. 1829; Sw. Adnot. Bot. 46. 1829.
- quinqueseta* Raf. ex Jacks*. Ind. Kew. 2:217. 1894 (*Orchis quinqueseta* Michx.). Southeastern United States=praec.
- †*repens* Raf. Herb. Raf. et Fl. Tellur. l.c., *descr.*, *nom.* (*Habenaria repens* Nutt.). Southeastern United States=*Habenaria repens* Nutt.
- MESOPTERA** Raf. Herb. Raf. 73. 1833, *descr.*, *nom. nov.* *Liparis* L. C. Rich.; Fl. Tellur. 4:49. 1836 [1838], *nom.*, *nota* (*Liparis* L. C. Rich.) (Type *Liparis loeselii* L. C. Rich.)=*Liparis* L. C. Rich. (1818), *nom. conserv.* (*Leptorkis* Thou., 1809).
- MONUSTES** Raf. Fl. Tellur. 2:87. 1836 [1837], *descr.*=*Spiranthes* L. C. Rich. (1818), *nom. conserv.* (*Gyrostachys* Pers., 1807; *Ibidium* Salisb., 1812).
- australis* Raf. l.c., *descr.* (*Neottia australis* R. Br.). Australia=*Spiranthes australis* Lindl.=*S. sinensis* (Pers.) Ames.
- NARICA** Raf. Fl. Tellur. 2:87. 1836 [1837], *descr.*=*Spiranthes* L. C. Rich. (1818), *nom. conserv.* (*Gyrostachys* Pers., 1807; *Ibidium* Salisb., 1812).
- moschata* Raf. l.c., *descr.* (*Neottia acaulis* Sm.). Trinidad=*Spiranthes acaulis* (Sm.) Cogn. (*S. picta* Lindl.).
- NEMURANTHES** Raf. Fl. Tellur. 2:61. 1836 [1837], *descr.*=*Habenaria* Willd. (1805).
- habenaria* Raf. op. cit. 62, *nom.*, *nota*, sub *N. longicauda* Raf. (*Habenaria macroceras* Spreng.; Hook. Bot. Mag. 56: t. 2947. 1829). Jamaica=*Habenaria macroceratidis* Willd.
- longicauda* Raf. op. cit. 61, *descr.* (*Habenaria longicauda* Hook. Bot. Mag. 57: t. 2957. 1830). Guiana.
- ***NELIS** Raf. ex Lindl. Collect. Bot. sub t. 25. 1821, *nom.*=*Goodyera* R. Br. 1813.
- **repens* Raf. l.c. *nom.* in *nota* [*Neottia repens* Linn.]=*Goodyera repens* (Linn.) R. Br.
- NEOTTIA** Linn.
- **adnaria* Raf. Fl. Tellur. 2:87. 1836 [1837], *nom.*, sub *Adnula* Raf., *sphalm.*=*N. adnata* Sw.=*Pelexia adnata* (Sw.) Spreng. West Indies.
- **gracilis* Raf. Atl. Jour. 1:18. 1832, *nom.* North America.
- **lacera* Raf. Fl. Ludovic. 171. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:206. 1818, *descr.* New York, near Lake George=*Spiranthes lacera* (Raf.) Raf. (*S. gracilis* Beck).
- **montana* Raf. Atl. Jour. 1:18. 1832, *nom.* North America=*Spiranthes montana* Raf. (*S. ovalis* Lindl., 1840).
- **plantaginea* Raf. Fl. Ludovic. 171. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:206. 1818, *descr.* New York, near Fishkill=*Spiranthes lucida* (H. H. Eaton) Ames (*S. plantaginea* Torr., non Lindl.).
- **viridis* Hook. Bot. Mag. 44: sub t. 2730, in *nota*, 1827; Raf. Fl. Tellur. 2:90. 1836 [1837], *nom.* sub *Synoplectris viridis* Raf. Brazil=*Spiranthes acaulis* (Sm.) Cogn.
- NERISSA** Raf. Fl. Tellur. 2:89. 1836 [1837], *descr.*=*Ponthieva* R. Br. (1813).
- glandulosa* Raf., l.c., *descr.* (*Neottia glandulosa* Sims. Bot. Mag. 22: t. 842. 1805). West Indies=*Ponthieva glandulosa* (Sims) R. Br.
- ***NYCHOSMA** Raf. ex Schlecht. Orch. 190. 1914, *nom.* in syn., *sphalm.*=seq.
- NYCTOSMA** Raf. Fl. Tellur. 2:9. 1836 [1837], *descr.*=*Epidendrum* Linn.
- nocturna* Raf. l.c., *descr.* (*Epidendrum nocturnum* Jacq.; Hook. Bot. Mag. 61: t. 3298. 1834). West Indies, Florida?
- ODONECTIS** Raf. Med. Repos. II. 5:357. 1808, *descr.*; Jour. Bot. (Paris) 1:221. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:173. 268. 1818, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.*; Herb. Raf. 73. 1833, *nom.*, *nota*; Fl. Tellur. 4:48. 1836 [1838], *descr.*=*Isotria* Raf. (1806, 1808).
- verticillata* Raf. Med. Repos. l.c., *descr.*; Jour. Bot. (Paris), l.c. *descr.*; Fl. Tellur. l.c., *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* (*Arethusa verticillata* Muhl. ex Willd.; *A. medeoloides* Pursh). Alleghany Mountains=*Isotria verticillata* (Muhl.) Raf. (*Pogonia verticillata* Nutt.).
- OLGASIS** Raf. Fl. Tellur. 2:51. 1836 [1837], *descr.*=*Oncidium* Sw. (1800).
- triquetra* Raf. l.c., *descr.* (*Cymbidium triquetrum* Sw.; *Oncidium triquetrum* R. Br.; Hook. Bot. Mag. 62: t. 3393. 1835). Jamaica.
- ONKERIPUS** Raf. Fl. Tellur. 4:42. 1836 [1838], *descr.*=*Xylobium* Lindl. (1825).
- pallidus* Raf. l.c., *descr.* (*Maxillaria pallidiflora* Hook. Bot. Mag. 55: t. 2806. 1828). West Indies (Saint Vincent)=*Xylobium pallidiflorum* (Hook.) Nichols.

OPHRYS Linn.

- **cilifolia* Raf. New Fl. N. Am. 1:59. 1836, *nom.* in syn. sub *Acroanthos cilifolia* Raf., *sphalm.* (*O. liliifolia* Linn.) Europe=*Liparis liliifolia* (Linn.) L. C. Rich.
 **estivalis* Raf. Med. Repos. III. 2:333. 1811, *nom.* Eastern United States=*O. aestivalis* Michx.=? *Spiranthes praecox* (Walt.) S. Wats.
pallida Raf. Car. Nuov. Gen. Sp. Sicil. 87. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; *Chloris Aetn.* 12. 1815, *nom.* Sicily.

ORCHIS Linn.

- bipunctata* Raf. Précis Découv. Somiol. 43. 1814, *descr.*; Jour. Bot. (Desv.) 4:272. 1814, *descr.* Sicily.
crocea Raf. Atl. Jour. 1:119. 1832, *descr.* Maryland, near Baltimore.
 **fragrans* Raf. Med. Fl. 2:248. 1830, *nom.*; Herb. Raf. 71. 1833, *nom.* sub *Tulotis fragrans* Raf. New York.
glareosa Raf. Atl. Jour. 1:150. 1832, *descr.* Illinois and western Kentucky=*Habenaria flava* (Linn.) R. Br.
 †*hyemalis* Raf. Am. Monthly Mag. Crit. Rev. 1:440. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.* Sicily.
 **macrophylla* Raf. Atl. Jour. 1:151. 1832, *nom.* [*Habenaria macrophylla* Goldie]. North America=*Habenaria macrophylla* Goldie.
 **nivea* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Eastern United States. Prob.=*Habenaria nivea* (Nutt.) Spreng.
picta Raf. Il.cc., *nom.* Eastern United States.
 **repens* Raf. Neogen. 4. 1825, *nom.* sub *Mecicera* Raf. [*Habenaria repens* Nutt.]. Eastern United States=*Habenaria repens* Nutt.
 **rotundifolia* Raf. Atl. Jour. 1:151. 1832, *descr.* Saint Lawrence River near Lake Ontario=*Orchis rotundifolia* Banks.

ORMOSTEMA Raf. Fl. Tellur. 4:38. 1836 [1838], *descr.*=*Dendrobium* Sw. (1799), *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).

- albiflora* Raf. l.c., *descr.* (*Epidendrum monile* Thunb.). Japan=*Dendrobium monile* (Thunb.) Kränzl=*Dendrobium moniliforme* (Linn.) Sw.
purpurea Raf. l.c., *descr.* (*Epidendrum moniliforme* Linn.; *Dendrobium moniliforme* sensu Lindl. Bot. Reg. 16: t. 1314. 1830, excl. syn. Sw.). China=*D. linawianum* Reich. f., et quoad syn. Linn.=*praec.*

ORXERA Raf. Fl. Tellur. 4:37. 1836 [1838], *descr.*=*Aerides* Lour. (1790).

- cornuta* Raf. l.c., *descr.* (*Aerides cornutum* Roxb.; Lindl. Bot. Reg. 18: t. 1485. 1832). India=*Aerides odoratum* Lour.

PANSTREPIS Raf. Fl. Tellur. 4:41. 1836 [1838], *descr.*=*Coryanthes* Hook. (1831).

- paradoxa* Raf. l.c., *descr.* (*Gongora macrantha* Hook. Bot. Miscel. 2:151. t. 80. 1831; *Coryanthes macrantha* Hook. Bot. Mag. 58: t. 3102. 1831; Lindl. Bot. Reg. 22: t. 1841. 1836). Venezuela=*Coryanthes macrantha* Hook.

PECTELIS Raf. Fl. Tellur. 2:37. 1836 [1837], *descr.*=*Hemihabenaria* Finet (1901)=*Habenaria* Willd. (1805).

- gigantea* Raf. op. cit. 38, *descr.* (*Orchis gigantea* Sm. Exot. Bot. 2:79. t. 100. 1805; *Habenaria gigantea* D. Don; Hook. Bot. Mag. 62: t. 3374. 1835). India=*Habenaria susannae* (Linn.) R. Br.

- radiata* Raf. l.c., *descr.* (*Orchis radiata* Pers.; *Orchis susannae* sensu Thunb.). Japan=*Habenaria radiata* (Pers.) Spreng.

- susanna* Raf. l.c., *descr.* (*Orchis susannae* Linn.) [*Flos susannae* Rumph. Herb. Amb. 5:286. t. 99. 1747]. Ambonia=*Habenaria susannae* (Linn.) R. Br.

PENTULOPS Raf. Fl. Tellur. 4:42. 1836 [1838], *descr.*=*Xylobium* Lindl. (1825).

- discolor* Raf. l.c., *descr.* (*Maxillaria decolor* Lindl. Bot. Reg. 18: t. 1549. 1832). Jamaica=*Xylobium palmifolium* (Sw.) Fawc.

PIERARDIA Raf. Fl. Tellur. 4:41. 1836 [1838], *descr.*, non *Pierardia* Roxb. (1814, 1832)=*Dendrobium* Sw. (1799), *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).

- bicolor* Raf. l.c., *descr.* (*Dendrobium pierardi* Roxb.; Lodd. Bot. Cab. 8: t. 750. 1823; Hook. Bot. Mag. 52: t. 2584. 1825). Bengal.

PLECTRELMINTHES Raf. Fl. Tellur. 4:42. 1836 [1838], *descr.*=*Angraecum* Bory (1804).

- bicolor* Raf. l.c., *descr.* (*Angraecum caudatum* Lindl. Bot. Reg. 22: t. 1844. 1836). West Africa.

PLECTRURUS Raf. Neogen. 4. 1825, *descr.*; Fl. Tellur. 2: 40. 1836 [1837], *descr.*=*Tipularia* Nutt. (1818).

- discolor* Raf. ex Jacks*. Ind. Kew. 2:561. 1894 (*Orchis discolor* Pursh; *Tipularia discolor* Nutt.). North America=*Tipularia discolor* (Pursh) Nutt.

*PLECTURUS Raf. Herb. Raf. 73. 1833, *nom.*, *sphalm.*=*praec.*

POGONIA Juss.

- **ophioglossoides* Raf. Herb. Raf. 73. 1833, *nom.*, *sphalm.*=*P. ophioglossoides* (Linn.) Ker-Gawl. North America.

#POMOPLIS Raf. Fl. Tellur. 2:40. 1836 [1837], *descr.*, subgen. *Orchis* Linn.PSYCHILIS Raf. Fl. Tellur. 4:40. 1836 [1838], *descr.*=*Epidendrum* Linn.

- amena* Raf. l.c., *descr.* (*Epidendrum bifidum* Aubl.; Lindl. Bot. Reg. 22: t. 1879. 1836). Guiana.

PSYCHOPSIS Raf. Fl. Tellur. 4:40. 1836 [1838], *descr.*=*Oncidium* Sw. (1800).

- picta* Raf. l.c., *descr.* (*Oncidium papilio* Lindl. Bot. Reg. 11: t. 910. 1825; Hook. Bot. Mag. 55: t. 2795. 1828). Trinidad.

#RHIZARINA Raf. Fl. Tellur. 2:40. 1836 [1837], *descr.*, subgen. *Orchis* Linn.SACODON Raf. Fl. Tellur. 4:45. 1836 [1838], *descr.*=*Cypripedium* Linn.

- macranthon* Raf. ex Jacks*. Ind. Kew. 2:775. 1895 (*Cypripedium macranthon* Sw.; Hook. Bot. Mag. 56: t. 2938. 1829). Siberia.

- ventricosum* Raf. ex Jacks*. l.c. (*Cypripedium ventricosum* Sw.; Sweet Brit. Fl. Gard. 4: t. 1. 1829). Russia, Siberia=*C. macranthon* Sw. var. *ventricosum* (Sw.) Reichb. f.

SACOILA Raf. Fl. Tellur. 2:86. 1836 [1837], *descr.*=*Stenorhynchus* L. C. Rich. (1818) (*Stenorhynchus*).

- lurida* Raf. l.c., *descr.* (*Neottia aphylla* Hook. Bot. Mag. 55: t. 2797. 1828). Trinidad=*Stenorhynchus aphyllus* (Hook.) Lindl.

SATYRIUM Linn.

- venosum* Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:231. 1809, *descr.* New Jersey and Pennsylvania to Delaware, Maryland and Virginia=*Tussaca secunda* Raf. fide Raf. Précis Découv. Somiol. 43. 1814=*Goodyera pubescens* (Willd.) R. Br.

SPIRANTHES L. C. Rich. (1818), *nom. conserv.* (*Gyrostachys* Pers., 1807; *Ibidium* Salisb., 1812).

- **bicolor* Raf. Fl. Tellur. 2:89. 1836 [1837], *nom. nov. provis.* *Spiranthes parviflora* Lindl. India=*Spiranthes sinensis* (Pers.) Ames.

- **brevicaulis* Raf. Herb. Raf. 45. 1833, *descr.* Kentucky.

- **estivalis* Raf. Fl. Tellur. 2:88. 1836 [1837], *nom.* [North America].

- **flexuosa* Raf. Herb. Raf. 45. 1833, *descr.* Appalachian Mountains.

- glauca* Raf. Fl. Tellur. 2:88. 1836 [1837], *descr.* Southern Europe.

- **lacera* (Raf.) Raf. Herb. Raf. 44. 1833, *descr.* (*Neottia lacera* Raf.; *N. gracilis* sensu Beck). Near Lake Champlain. (*Neottia gracilis* Beck var. *β secunda* Bigelow, Fl. Bost. ed. 2. 322. 1824); see Fernald, *Rhodora* 48:5. 1946.

- laxiflora* Raf. Fl. Tellur. 2:88. 1836 [1837], *descr.* (*Neottia tortilis* Sm.). China=*Spiranthes tortilis* (Sm.) L. C. Rich.

- **montana* Raf. Herb. Raf. 45. 1833, *descr.* Cumberland Mountains. (*S. ovalis* Lindl., 1840; *S. parviflora* Ames, 1905); see Fernald, *Rhodora* 48:5. 1946.

- **pauciflora* Raf. op. cit. 52, *nom.*, 76, *descr.* Rocky Mountains or Oregon.

- **petiolaris* Raf. op. cit. 45, *descr.* Illinois.

- **plantaginea* Raf. op. cit. 44, *descr.* (*Neottia plantaginea* Raf.) New York=*Spiranthes lucida* (H. H. Eaton) Ames (*S. plantaginea* Torr., non Lindl.).

- **sibirica* Raf. Fl. Tellur. 2:88. 1836 [1837], *descr.* Siberia.

- **tuberosa* (Raf.) Raf. Herb. Raf. 45. 1833, *descr.* New Jersey. (*S. beckii* Lindl., 1840; *S. grayii* Ames, 1904); see Fernald, *Rhodora* 48:6. 1946; Ames, Bot. Mus. Leaf. Harvard Univ. 13:17-30, t. 1-3. 1947.

STENOPOLEN Raf. Fl. Tellur. 4:49. 1836 [1838], sub *Achroanthos* Raf., *nom. nov.* *Stenia* Lindl.STIMEGAS Raf. Fl. Tellur. 4:45. 1836 [1838], *descr.*=*Paphiopedilum* Pfitz. (1886), *nom. conserv.* (*Paphiopedilum* Pfitz., 1886; *Cordula* Raf., 1838; *Stimegas* Raf., 1838).

- venustum* Raf. op. cit. 46, *descr.* (*Cypripedium venustum* Wall.; Sims, Bot. Mag. 47: t. 2129. 1820; Ker-Gawl. Bot. Reg. 10: t. 788. 1824). Nepal=*Paphiopedilum venustum* (Wall.) Pfitz.

- STRATEUMA** Raf. Fl. Tellur. 2:89. 1836 [1837], *descr.*=Zeuxine (Zeuxina Lindl.) (1826), *nom. conserv.* (*Adenostylis* Bl., 1825, non Cass., 1826).
zeylanica Raf. l.c., *descr.* (*Orchis strateumatica* Linn.). Ceylon=Zeuxine strateumatica (Linn.). Schltr.
SULPITIA Raf. Fl. Tellur. 4:37. 1836 [1837], *descr.*=*Epidendrum* Linn.
odorata Raf. l.c., *descr.* (*Epidendrum odoratissimum* Lindl. Bot. Reg. 17: t. 1415. 1831; *Encyclia patens* Hook. Bot. Mag. 57: t. 3013. 1830). Brazil=*Epidendrum odoratissimum* Lindl.
SYNADENA Raf. Fl. Tellur. 4:9. 1836 [1838], *descr.*=*Phalaenopsis* Blume (1825).
amabilis Raf. l.c., *descr.* (*Epidendrum amabile* Linn.: *Angraecum album majus* Rumph. Herb. Amb. 6:95. t. 43. 1750). Moluccas=*Phalaenopsis amabilis* (Linn.) Blume; see Merrill, Interpret. Rumph. Herb. Amb. 177. 1917.
SYNOLECTRIS Raf. Fl. Tellur. 2:89. 1836 [1837], *descr.*=*Spiranthes* Rich. (1818), *nom. conserv.* (*Gyrostachys* Pers., 1807; *Ibidium* Salisb., 1812).
picta Raf. op. cit. 90, *descr.* (*Neottia picta* Sims; *Spiranthes picta* Lindl.). South America=*Spiranthes acaulis* (Sm.) Cogn.
viridis Raf. l.c., *descr.* (*Spiranthes grandiflora* Lindl. Bot. Reg. 12: t. 1043. Feb. 1827; *Neottia grandiflora* Hook. Bot. Mag. 54: t. 2730. 1827; *Neottia *viridis* Hook. op. cit. in nota). Brazil=*Spiranthes acaulis* (Sm.) Cogn.
#TEPHROSANTHOS Raf. Fl. Tellur. 2:40. 1836 [1837], *descr.*, subgen. *Orchis* Linn.
THELYPOGON Spreng. (1826)=*Telipogon* H.B.K. (1815).
**angustifolius* Raf. Fl. Tellur. 2:17. 1836 [1837], *nom.*, *nota* (*Tradescantia nervosa* Linn.). Northern South America=*Telipogon angustifolius* H.B.K.=*Telipogon nervosus* (Linn.) Druce.
THICUANIA Raf. Fl. Tellur. 4:47. 1836 [1838], *descr.*=*Dendrobium* Sw. (1799), *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).
moschata Raf. l.c., *descr.* (*Epidendrum moschatum* Buch-Ham.). Burma=*Dendrobium moschatum* (Buch-Ham.) Sw.
TOLUMNIA Raf. Fl. Tellur. 2:101. 1836 [1837], *descr.*=*Oncidium* Sw. (1800).
pulchella Raf. l.c., *descr.* (*Oncidium pulchellum* Hook. Bot. Mag. 54: t. 2773. 1827). British Guiana.
TOMOTRIS Raf. Fl. Tellur. 2:89. 1836 [1837], *descr.*=*Corymborchis* Thouars (1822).
flava Raf. l.c., *nom.* (*Neottia flava* Sw.; *Serapias flava* Sw.). West Indies=*Corymborchis flava* (Sw.) O. Kuntze (*Corymbis flava* Hemsl.).
polystachya Raf. l.c., *nom.* (*Neottia polystachya* Sw.). West Indies=*Tropidia polystachya* (Sw.) Ames (*Chloidia polystachya* Benth.).
TRITELANDRA Raf. Fl. Tellur. 2:85. 1836 [1837], *descr.*=*Epidendrum* Linn.
fuscata Raf. op. cit. 86, *descr.* (*Epidendrum fuscatum* Sm.; Lodd. Bot. Cab. 5:472. 1820; Ker-Gawl. Bot. Reg. 1: t. 67. 1815; Hook. Bot. Mag. 55: t. 2844. 1828). West Indies=*Epidendrum anceps* Jacq.
TROPILIS Raf. Fl. Tellur. 2:95. 1836 [1837], *descr.*=*Dendrobium* Sw. (1799), *nom. conserv.* (*Callista* Lour., 1790; *Ceraia* Lour., 1790).
emula Raf. l.c., *descr.* (*Dendrobium aemulum* R. Br.; Hook. Bot. Mag. 54: t. 2906. 1829). Australia.

- *TSOTRIA** Raf. Am. Monthly Mag. Crit. Rev. 2:173, 174. 1817, *nom.*, *sphalm.*=*Isotria* Raf. (1806).
**medeoloides* Raf. op. cit. 174, *nom.*, *nota*, *sphalm.* "*medeoloides*" (*Arethusa medeoloides* Pursh). Eastern North America=*Isotria verticillata* (Muhl.) Raf. (*Pogonia verticillata* Nutt.).
TULEXIS Raf. Fl. Tellur. 4:42. 1836 [1838], *descr.*=*Brassavola* R. Br. (1813).
bicolor Raf. op. cit. 43, *descr.* (*Brassavola tuberculata* Hook. Bot. Mag. 56: t. 2878. 1829). Brazil.
TULOTIS Raf. Herb. Raf. 70. 1833, *descr.*; Fl. Tellur. 2:37. 1836 [1837], *descr.*=*Perularia* Lindl. (1835)=*Habenaria* Willd. (1805).
albiflora Raf. Herb. Raf. 71. 1833, *descr.* White Mountains of New Hampshire.
fragrans Raf. l.c., *descr.* Mattawan Mountains of New York.
fuscescens Raf. ex Jacks*. Ind. Kew. 2:1136. 1895 (*Habenaria *fuscescens* Torr. Compend. Fl. N. Mid. States 318. 1826)=*Habenaria flava* (Linn.) R. Br.
herbiola Raf. Herb. Raf. 71. 1833, *descr.* (*Habenaria herbiola* R. Br.). New England and the Alleghany Mountains=*Habenaria flava* (Linn.) R. Br. (*Perularia *flava* Farwell Eleventh Ann. Rep. Com. Parks Detroit 54. 1900; *Platanthera flava* A. Gray).
parviflora Raf. l.c., *descr.* (*Orchis fuscescens* sensu Ell.). Carolina=*Habenaria flava* (Linn.) A. Gray.
TUSSACA Raf. Précis Découv. Somiol. 42. 1814, *descr.*; Jour. Bot. (Paris) 4:271, *nom.*, 272, *descr.* 1814; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*, *nota* (*Goodyera* R. Br.); Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.*, *nota* (*Goodyera* R. Br.); Herb. Raf. 73. 1833, *nom.*, *nota* (*Goodyera* R. Br.); Fl. Tellur. 2:87. 1836 [1837], *nom.*, *nota* (*Goodyera* R. Br.)=*Goodyera* R. Br. (1813), *nom. conserv.* (*Epipactis* Boehm.,⁵ 1760; *Peramium* Salisb., 1812).
**oblongifolia* Raf. Herb. Raf. 76. 1833, *descr.*, *nom. alt.* *Goodyera oblongifolia* Raf. Rocky Mountains or Oregon=*Goodyera oblongifolia* (Raf.) Raf. (*Goodyera menziesii* Lindl., 1840; *G. decipiens* F. T. Hubb., 1923); see Fernald, Rhodora 47:11. 1945.
reticulata Raf. Précis Découv. Somiol. 43. 1814, *descr.* (*Satyrium repens* sensu Michx.); Jour. Bot. (Paris) 4:271. 1814, *nom.* (*Satyrium repens* sensu Michx.); Med. Fl. 2:224. 1830, *nom.* in syn. sub *Goodyera pubescens* R. Br.). North America=*Goodyera pubescens* (Willd.) R. Br. (*Epipactis pubescens* A. A. Eaton).
secunda Raf. Précis Découv. Somiol. 43. 1814, *nom.*, *nota* (*Satyrium repens* Linn.); Jour. Bot. (Paris) 4:272. 1814, *nom.*, *nota* (*Satyrium venosum* Raf.; *Neottia repens* Linn.). Europe=*Goodyera repens* (Linn.) R. Br. (*Epipactis repens* Crantz).
***ULANTHIA** Raf. Fl. Tellur. 2:60. 1836 [1837], *nom.*=*Ulantha* Hook. (1830)=*Chloraea* Lindl. (1827).
XARITONIA Raf. Fl. Tellur. 4:9. 1836 [1838], *descr.*=*Oncidium* Sw. (1800).
elegans Raf. l.c., *descr.* (*Epidendrum tetrapetalum* Jacq. Sel. Am. Stirp. t. 142. 1763; Sel. Stirp. Am. Hist. Pict. t. 216. 1780). Jamaica=*Oncidium guttatum* (Linn.) Fawc. & Rendle.
XEILYATHUM Raf. Tellur. 2:62. 1836 [1837], *descr.*=*Oncidium* Sw. (1800).
altissimum Raf. l.c., *descr.* (*Oncidium altissimum* Sw.; Hook. Bot. Mag. 57: t. 2990. 1830; *Epidendrum altissimum* Jacq. Sel. Am. Stirp. t. 141. 1763). West Indies=*Oncidium altissimum* (Jacq.) Sw.

Dicotyledoneae

PIPERACEAE

- AMALAGO** Raf. Sylva Tellur. 84. 1838, *descr.*=*Piper* Linn.
antillana Raf. l.c., *nom.* (*Piper amalago* Linn.). West Indies.
malamiri Raf. l.c., *nom.* (*Piper malamiris* Linn.). India, Ceylon, Java.
BETELA Raf. Sylva Tellur. 85. 1838, *nom. nov. provis.*=*Piper* Linn.
mastica Raf. l.c., *nom.* (*Piper betle* Linn., *sphalm.* Raf. "betel") Indo-Malaysia=*Piper betle* Linn.
CARPUPIA Raf. Sylva Tellur. 85. 1838, *nom. nov. provis.*=*Piper* Linn.
odorata Raf. l.c., *nom.* (*Piper carpujia* Pers.). Peru=*Piper carpunya* Ruiz & Pavon.

- CHURUMAYA** Raf. Sylva Tellur. 85. 1838, *nom. nov. provis.*=*Piper* Linn.
arborea Raf. l.c., *nom.* (*Piper churumaya* Ruiz & Pavon). Peru.
CUBEBA Raf. Sylva Tellur. 84. 1838, *descr.*, non *Cubeba* Raf. op. cit. 165=*Piper* Linn.
officinalis Raf. l.c., *nom.* (*Piper cubeba* Linn.). India.

⁵ *Epipactis* Boehm. (1760) is antedated by *Epipactis* Zinn (1757) and the latter is conserved against *Serapias* Linn., p.p. (1753), *Helleborine* Mill., p.p. (1754), *Helleborine* Hill (1756), and *Amesia* A. Nels. (1913), a generic group distinct from *Goodyera* R. Br.

- CONISTUM** Raf. Sylva Tellur. 85. 1838, *descr.* = Piper Linn.
unguiculatum Raf. l.c., *nom.* (*Piper unguiculatum* Ruiz & Pavon, Fl. Peruv. 1:34. t. 37. 1798). Peru.
- LEPIANTHES** Raf. Sylva Tellur. 84. 1838, *descr.* = Piper Linn.
granulata Raf. op. cit. 85, *nom.* (*Piper "granulatum" sphalm.* [P. *granulosum* Ruiz & Pavon]. Peru.
maculosa Raf. l.c., *nom.* (*Piper maculosum* Hill). South America.
umbellata Raf. l.c., *nom.* (*Piper umbellatum* Linn.). Pan-tropic.
peltata Raf. l.c., *nom.* (*Piper peltatum* Linn.). Tropical America.
- METHYSTICUM** Raf. Sylva Tellur. 85. 1838, *nom.* = Piper Linn.
esculentum Raf. l.c., *nom.* [*Piper methysticum* Forst. f.]. Polynesia = Piper methysticum Forst. f. (*P. esculentum* Farwell, Drug. Circ. 61:230. 1917); see Moore, Bishop Mus. Occ. Pap. 10(19):1-8. 1934.
- OXODIUM** Raf. Sylva Tellur. 85. 1838, *descr.* = Piper Linn.
callosum Raf. l.c., *nom.* (*Piper callosum* Ruiz & Pavon). Peru.
- PIPER** Linn.
**betel* Raf. Sylva Tellur. 85. 1838, *nom.*, *sphalm.* = Piper betle Linn. Indo-Malaysia.
**granulatum* Raf. l.c., *nom.* sub *Lepianthes* Raf., *sphalm.* = Piper granulosum Ruiz & Pavon. Peru.
- TROXIRUM** Raf. Sylva Tellur. 85. 1838, *descr.*; Aut. Bot. 14. 1840, *descr.* = Peperomia Ruiz & Pavon (1794).
blandum Raf. Sylva Tellur. l.c., *nom.* (*Piper blandum* Jacq.) Venezuela = Peperomia blanda (Jacq.) H.B.K.
filiforme Raf. l.c., *nom.* (*Piper filiforme* Pers.). Peru = Peperomia filiformis Ruiz & Pavon.
pereskia Raf. l.c., *nom.* (*Piper pereskiaefolium* Jacq.). Venezuela = Peperomia pereskiaefolia (Jacq.) H.B.K.
pulchellum Raf. l.c., *nom.* (*Piper pulchellum* Ait.). Jamaica = Peperomia pulchella (Ait.) A. Dietr.
quadrifolium Raf. l.c., *nom.* (*Piper quadrifolium* Linn.). Tropical America = Peperomia quadrifolia (Linn.) H.B.K.
reflexum Raf. l.c., *nom.* (*Piper reflexum* Linn. f.). India = Peperomia reflexa (Linn. f.) A. Dietr.
stellatum Raf. l.c., *nom.* (*Piper stellatum* Sw.). Jamaica = Peperomia stellata (Sw.) A. Dietr.
trifolium Raf. l.c., *nom.* (*Piper trifolium* Linn.). Guiana = Peperomia trifolia (Linn.) A. Dietr.
**varians* Raf. Aut. Bot. 14. 1840, *descr.* (*Piper verticillatum* Linn.). Jamaica = Peperomia verticillata (Linn.) A. Dietr.
verticillatum Raf. Sylva Tellur. 85. 1836, *nom.* (*Piper verticillatum* Linn.). Jamaica = Peperomia verticillata (Linn.) A. Dietr.
**villosum* Raf. Aut. Bot. 14. 1840, *descr.* Central America.

SALICACEAE

- #**AIGIROS** Raf. Alsogr. Am. 42. 1838, *descr.*, sect. *Populus* Linn. = Populus Linn. sect. Aigeiros Duby.
heterophylos Raf. ex Jacks*. Ind. Kew. 1:66. 1893. (*Populus heterophylla* Linn.). Eastern North America.
- AMERINA** Raf. Alsogr. Am. 15. 1838, *descr.*, non Noronha (1790), nec DC. (1840) = Salix Linn.
balduiniana Raf. op. cit. 16, *descr.*; Aut. Bot. 76. 1840, *nom.* Florida.
caroliniana Raf. op. cit. 15. 1836, *nom.* (*Salix caroliniana* Michx.). Southeastern United States.
glandulosa Raf. l.c., *nom.* (*Salix pentandra* Linn.). Eurasia.
houstoniana Raf. l.c., *nom.* (*Salix houstoniana* Pursh). North America = Salix nigra Marsh.
missurica Raf. op. cit. 16, *descr.*; Aut. Bot. 76. 1840, *nom.* Missouri.
nigra Raf. op. cit. 15, *nom.* (*Salix nigra* Marsh.). Eastern North America.
tinctoria Raf. l.c., *nom.* (*Salix tinctoria* Sm.). Europe = Salix meyeriana Rostk.
tomentosa Raf. l.c., *nom.* (*Salix tomentosa* Host.). Eurasia.
AMERIX Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.* = Salix Linn.
- ARGORIPS** Raf. Alsogr. Am. 13. 1838, *descr.* = Salix Linn.
alba Raf. l.c., *nom.* (*Salix alba* Linn.). Europe.
cerulea Raf. l.c., *nom.* (*Salix caerulea* Sm.). Europe = Salix alba Linn. var. *calva* F. W. Mey.

- BIGGINA** Raf. Alsogr. Am. 14. 1838, *descr.* = Salix Linn.
angustata Raf. l.c., *nom.* (*Salix angustata* Pursh). North America.
argentea Raf. l.c., *nom.* (*Salix argentea* Dum.-Cours.). North America = Salix repens Linn. var. *nitida* Wendr.
conifera Raf. l.c., *nom.* (*Salix conifera* Wagh.). Europe = ? Salix tristis Ait.
- CHALEBUS** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.* = Salix Linn.
- DIAMARIPS** Raf. Alsogr. Am. 15. 1838, *descr.* = Salix Linn.
croweana Raf. l.c., *nom.* (*Salix croweana* Sm.). Europe = ? Salix myrsinifolia Salisb.
rubra Raf. l.c., *nom.* (*Salix rubra* Huds.). Europe.
- DIPLIMA** Raf. Alsogr. Am. 13. 1838, *descr.* = Salix Linn.
arenaria Raf. l.c., *nom.* (*Salix arenaria* Linn.). Eurasia = ? Salix lapponicum Linn.
chrysantha Raf. l.c., *nom.* (*Salix chrysanthos* Vahl). Europe = Salix lanata Linn.
lucida Raf. l.c., *nom.* (*Salix lucida* Muhl.). North America.
stipularis Raf. l.c., *nom.* (*Salix stipularis* Sm.). Europe.
stuartiana Raf. l.c., *nom.* (*Salix stuartiana* Sm.). Europe = Salix lapponicum Linn.
subsessilis Raf. ex Jacks*. Ind. Kew. 1:770. 1893, *sphalm.* = Salix lucida Muhl.
viminialis Raf. Alsogr. Am. l.c., *nom.* (*Salix viminialis* Linn.). Eurasia.
weigeliiana Raf. l.c., *nom.* (*Salix weigeliiana* Willd.). Europe = Salix phyllicifolia Linn.
- DIPLOPIA** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.* = Salix Linn.
- DIPLUSION** Raf. Alsogr. Am. 15. 1838, *descr.* = Salix Linn.
cordatum Raf. l.c., *nom.* (*Salix cordata* Muhl.). North America = Salix rigida Muhl.
lucidum Raf. l.c., *nom.* (*Salix lucida* Muhl.). North America.
rigidum Raf. l.c., *nom.* (*Salix rigida* Muhl.). North America.
undulatum Raf. l.c., *nom.* (*Salix undulata* Ehrh.). Europe = ? Salix mollissima Ehrh.
- DISYNIA** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *nom. subnud.* = Salix Linn.
- MELANIX** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.* = Salix Linn.
- #**MONILISTUS** Raf. Alsogr. Am. 42. 1838, *descr.*, sect. *Populus* Linn. = Populus Linn. sect. Aigeiros Duby.
monilifera Raf. ex Jacks*. Ind. Kew. 2:267. 1894 (*Populus monilifera* Ait.). North America = Populus deltoides Marsh.
- NECTOLIS** Raf. Alsogr. Am. 15. 1838, *descr.* = Salix Linn.
ambigua Raf. l.c., *nom.* [*Salix ambigua* Pursh]. North America = Salix nigra Marsh.
**hippophelia* Raf. l.c., *nom.* [*Salix hippophaefolia* Thuill.]. Europe = seq.
hippophæfolia Raf. ex Jacks*. Ind. Kew. 2:300. 1894 = Salix mollissima Ehrh.
**membracea* Raf. l.c., *nom.* [*Salix membranacea* Thuill.]. Europe = seq.
membranacea Raf. ex Jacks*. l.c. [*Salix membranacea* Thuill.].
vitellina Raf. l.c., *nom.* [*Salix vitellina* Linn.]. Europe = Salix alba Linn. var. *vitellina* Stokes.
- NECTOPIX** Raf. Alsogr. Am. 14. 1838, *descr.* = Salix Linn.
caprea Raf. l.c., *nom.* (*Salix caprea* Linn.). Europe.
rhamnifolia Raf. l.c., *nom.* (*Salix rhamnifolia* Pallas). Siberia.
sphacelata Raf. l.c., *nom.* (*Salix sphacelata* Willd.). Europe.
- NECTUSION** Raf. Alsogr. Am. 14. 1838, *descr.* = Salix Linn.
reticulatum Raf. l.c., *nom.* (*Salix reticulata* Linn.). Arctic and boreal regions.
- NESTYLIX** Raf. Alsogr. Am. 15. 1838, *descr.* = Salix Linn.
amygdalina Raf. l.c., *nom.* (*Salix amygdalina* Linn.). Europe.
arborea Raf. l.c., *nom.* (*Salix triandra* Linn.). Eurasia = praec.
falcata Raf. l.c., *nom.* (*Salix falcata* Pursh). North America.
hopeana Raf. l.c., *nom.* (*Salix hopeana* Willd.). Europe = Salix amygdalina Linn.
villarsiana Raf. l.c., *nom.* (*Salix villarsiana* Fluegge). Europe.
- #**OCTIMA** Raf. Alsogr. Am. 42. 1838, *descr.*, sect. *Populus* Linn. (Type *Populus canescens* Sm.) = Populus Linn.

⁶ There is no published *Salix* with such a specific name. Rafinesque's entry is "lucida ov. subsess."; he clearly intended the two abbreviated words as descriptive of his *Diplima lucida* (*Salix lucida* Muhl.) "ovario subsessile."

- canescens* Raf. ex Jacks*. Ind. Kew. 2:327. 1894 (*Populus canescens* Sm.). England.
- OISODIX** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.*; Alsogr. Am. 13. 1838, *descr.*=*Salix* Linn.
- decipiens* Raf. ex Jacks*. Ind. Kew. 2:335. 1894 (*Salix decipiens* Hoffm.).⁷ Europe=*Salix fragilis* Linn. var. *decipiens* (Hoffm.) Koch.
- fulva* Raf. Alsogr. Am. 16. 1838, *descr.*; Aut. Bot. 76, *nom.* Oregon.
- glauca* Raf. ex Jacks*. Ind. Kew. 2:335. 1894 (*Salix glauca* Linn.). Europe.
- holosericea* Raf. ex Jacks*. l.c. (*Salix holosericea* Willd.). Europe.
- longifolia* Raf. ex Jacks*. l.c. (*Salix longifolia* Muhl.). North America=*Salix interior* Rowlee.
- oblongifolia* Raf. Alsogr. Am. 16. 1838, *descr.*; Aut. Bot. 76. 1840, *nom.* Maine.
- reticulata* Raf. ex Jacks*. l.c. (*Salix reticulata* Linn.). Boreal regions.
- serpyllifolia* Raf. ex Jacks*. l.c. (*Salix serpyllifolia* Scop.). Europe.
- OPODIX** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.*=*Salix* Linn.
- PLEIARINA** Raf. Alsogr. Am. 15. 1838, *descr.*=*Salix* Linn.
- humboldtiana* Raf. l.c., *nom.* (*Salix humboldtiana* Willd.). South America.
- POPULUS** Linn.
- bicolor* Raf. Alsogr. Am. 42. 1838, *descr.*; Aut. Bot. 76. 1840, *nom.* Alleghany Mountains=*P. alba* Linn.
- biformis* Raf. Alsogr. Am. 43. 1838, *descr.* Euphrates River=*Populus euphratica* Oliver.
- candicans* Ait. var. *crenata* Raf. l.c., *descr.* North America.
- ciliolata* Raf. l.c., *descr.*; Aut. Bot. 76. 1840, *nom.* (*Populus graeca* sensu Willd.; *P. balsamifera* auct.). Alleghany Mountains, Ohio.
- cinerea* Raf. Alsogr. Am. op. cit. 42. *descr.*; Aut. Bot. l.c., *nom.* Alleghany Mountains.
- var. *reticulata* Raf. Alsogr. Am. l.c., *descr.*
- reticulata* Raf. Alsogr. Am. op. cit. 43, *descr.*; Aut. Bot. l.c., *nom.* Appalachian Mountains.
- salicifolia* Raf. Alsogr. Am. l.c., *descr.* Upper Missouri and Oregon (Lewis & Clark)=*Populus angustifolia* James.
- PSATHERIPS** Raf. Alsogr. Am. 15. 1838, *descr.*=*Salix* Linn.
- fragilis* Raf. l.c., *nom.* (*Salix fragilis* Linn.). Europe, northern Asia.
- RIPSELAXIS** Raf. Alsogr. Am. 14. 1838, *descr.*=*Salix* Linn.
- herbacea* Raf. l.c., *nom.* (*Salix herbacea* Linn.). Boreal and Arctic regions.
- RIPSOCTIS** Raf. Alsogr. Am. 15. 1838, *descr.*=*Salix* Linn.
- egyptiaca* Raf. l.c., *nom.*; Aut. Bot. 6. 1840, *nom.* (*Salix octandra* Sieber). Abyssinia.
- indica* Raf. Alsogr. Am. l.c., *nom.* (*Salix tetrandra* Roxb.). India.
- SALIX** Linn.
- **arborea* Raf. Alsogr. Am. 15. 1838, *nom. nov.* *Salix triandra* Linn., sub *Nestylis arborea* Raf. Europe.
- denudata* Raf. Fl. Ludovic. 116. 1817, *descr.* (*Saule 1* Rob. Voy. Louis. 3:321. 1807); Herb. Raf. 55. 1833, *nom.* Louisiana.
- grisea* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- **hexandra* Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Herb. Raf. 38, 56. 1833, *nom.* Kentucky, Missouri.
- **hopeana* Raf. Alsogr. Am. 15. 1838, *nom.*=*Salix hopeana* Willd. Europe.
- hybrida* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- **involacea* Raf. Alsogr. Am. 14. 1838, *nom. alt.* *Vimen involacea* Raf. Hab.?
- ludoviciana* Raf. Fl. Ludovic. 116. 1817, *nom.*, *nota* (*Saule 2*, Rob. Voy. Louis. 3:521. 1807). Louisiana.
- **repanda* Raf. Alsogr. Am. 17. 1838, *descr.*; Aut. Bot. 76. 1840, *nom.* Florida.

⁷ Rafinesque inadvertently lists six names, sub *Oisodix*, as "D. holosericea glauca, serpyllif." etc., the D. possibly being a misprint for S=*Salix*, or he originally selected a generic name commencing with D was later abandoned without changing the text for the binomials.

- SOKOLOFIA** Raf. Alsogr. Am. 14. 1838, *descr.*=*Salix* Linn.
- rupestris* Raf. op. cit. 15, *nom.* (*Salix rupestris* Donn). Europe=? *Salix myrsinifolia* Salisb.
- #**STENALIX** Raf. Alsogr. Am. 17. 1838, *descr.*, subgen. *Vetrix* Raf.; Aut. Bot. 76. 1840, *nom.* (Type *Vetrix linearifolia* Raf.)=*Salix* Linn.
- TELESMA** Raf. Alsogr. Am. 15. 1838, *descr.*=*Salix* Linn.
- hermaphrodita* Raf. l.c., *nom.* [*Salix hermaphrodita* Linn.]. Europe.
- #**TREMULA** Raf. Alsogr. Am. 42. 1838, *descr.*, sect. *Populus* Linn.=*Tremula* Dum. (1826), ut gen.=*Populus* Linn.
- trepida* Raf. ex Jacks*. Ind. Kew. 2:1100. 1895 (*Populus trepida* Willd.)=*P. tremuloides* Michx. North America.
- URNECTIS** Raf. Alsogr. Am. 14. 1838, *descr.*=*Salix* Linn.
- hirta* Raf. l.c., *nom.* (*Salix hirta* Sm.). Europe=? *Salix myrsinifolia* Salisb.
- USIONIS** Raf. Alsogr. Am. 14. 1838, *descr.*=*Salix* Linn.
- aquatica* Raf. l.c., *nom.* (*Salix aquatica* Sm.). England=*Salix cinerea* Linn.
- aurita* Raf. l.c. *nom.* (*Salix aurita* Linn.). France.
- dicksoniana* Raf. l.c., *nom.* (*Salix dicksoniana* Sm.). England.
- foliolosa* Raf. l.c., *nom.* (*Salix foliolosa* Willd.). Europe.
- fuscata* Raf. l.c., *nom.* (*Salix fuscata* Pursh). North America.
- grisea* Raf. l.c., *nom.* (*Salix grisea* Willd.). North America=*Salix sericea* Marsh.
- humilis* Raf. op. cit. 17, *descr.* (*Salix humilis* Marsh.; *S. muhlenbergiana* auct. Am.; *S. tristis* auct. Am.; *S. incana* Michx. ?; *S. grisea* auct. Am.); Aut. Bot. 76. 1840, *nom.* Alleghany Mountains=*Salix humilis* Marsh.
- pedicellaris* Raf. Alsogr. Am. 14. 1838, *nom.* (*Salix pedicellaris* Pursh). North America.
- petiolaris* Raf. l.c., *nom.* (*Salix petiolaris* Sm.). North America.
- rosmarinifolia* Raf. l.c., *nom.* (*Salix rosmarinifolia* Linn.). Eurasia.
- uliginosa* Raf. l.c., *nom.* (*Salix uliginosa* Willd.). Eurasia.
- VETRIX** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.*; Alsogr. Am. 13. 1838, *descr.*=*Salix* Linn.
- forbiana* Raf. Alsogr. Am. 13. 1838, *nom.* (*Salix forbyana* Sm.). Europe=*Salix rubra* Huds.
- †*helix* Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *nom.* (*Salix helix* Linn.); Alsogr. Am. l.c., *nom.* Europe=*Salix rubra* Huds.
- lambertiana* Raf. Alsogr. Am. 13. 1838, *nom.* (*Salix lambertiana* Sm.). Europe.
- linearifolia* Raf. op. cit. 17, *descr.*; Aut. Bot. 76. 1840, *nom.* Missouri.
- purpurea* Raf. op. cit. 13, *nom.* (*Salix purpurea* Linn.). Europe.
- †*sicula* Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.*; Fl. Ludovic. 168. 1817, *nom.*; Alsogr. Am. 13. 1838, *descr.* Sicily.
- VIMEN** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.*; Alsogr. Am. 13. 1838, *descr.*, non P. Browne (1756)=*Salix* Linn.
- acuminatum* Raf. Alsogr. Am. 14. 1838, *nom.* (*Salix acuminata* Mill.). Europe=*Salix myrsinifolia* Salisb.
- andersonianum* Raf. l.c., *nom.* (*Salix andersoniana* Sm.). Europe.
- bicolor* Raf. l.c., *nom.* (*Salix bicolor* Ehrh.). Europe=*Salix phylicifolia* Linn.
- cinereum* Raf. l.c., *nom.* (*Salix cinerea* Linn.). Europe.
- cotinifolium* Raf. l.c., *nom.* (*Salix cotinifolia* Sm.). Europe=*Salix myrsinifolia* Salisb.
- discolor* Raf. l.c., *nom.* (*Salix discolor* Muhl.). Eastern North America.
- forsterianum* Raf. l.c., *nom.* (*Salix forsteriana* Sm.). Europe=*Salix myrsinifolia* Salisb.
- hastatum* Raf. l.c., *nom.* (*Salix hastata* Linn.). Europe.
- involuteum* Raf. l.c., *nom.* (*Salix involutea* Raf., l.c., *nom.*). Hab.?
- malifolium* Raf. l.c., *nom.* (*Salix malifolia* Sm.). Europe=*Salix hastata* Linn.
- muhlenbergianum* Raf. l.c., *nom.* (*Salix muhlenbergiana* Willd.). Eastern North America=*Salix humilis* Marsh.
- myricoides* Raf. l.c., *nom.* (*Salix myricoides* Muhl.). North America.
- parvifolium* Raf. l.c., *nom.* (*Salix parvifolia* Sm.). Europe=*Salix repens* Linn.
- phylicifolium* Raf. l.c., *nom.* (*Salix phylicifolia* Linn.). Europe.

VIMEN (continued).

- prinoides* Raf. l.c., nom. (*Salix prinoides* Pursh). North America=*Salix discolor* Muhl.
prostratum Raf. l.c., nom. (*Salix prostrata* Sm.). Europe=*Salix repens* Linn.
pyrenaicum Raf. l.c., nom. (*Salix pyrenaica* Gouan). Europe.
repens Raf. l.c., nom. (*Salix repens* Linn.). Eurasia.
retusum Raf. l.c., nom. (*Salix retusa* Linn.). Europe.
russelianum Raf. l.c., nom. (*Salix russelliana* Sm.). Europe.
silesiacum Raf. l.c., nom. (*Salix silesiaca* Willd.). Europe.
starkeanum Raf. l.c., nom. (*Salix starkeana* Willd.). Europe=*Salix livida* Wahl.
uva-ursi Raf. l.c., nom. (*Salix uva-ursi* Pursh). North America.
violaceum Raf. l.c., nom. (*Salix violacea* Hall). Europe=*Salix acutifolia* Willd.
wulfenianum Raf. l.c., nom. (*Salix wulfeniana* Forbes). Europe=*Salix glabra* Scop.

MYRICACEAE

- #**CEROCARPA** Raf. Alsogr. Am. 11. 1838, descr., subgen. *Cerophora* Raf.=*Myrica* Linn.
CEROPHORA Raf. Alsogr. Am. 11. 1838, descr. (*Gale* Tourn.), non *Cerophora* Raf. (1808, 1809, 1814)=*Gale* Adans. (1763)=*Myrica* Linn.
angustifolia Raf. Alsogr. Am. 11. 1838, descr. (*Myrica gale* sensu Michx.). New England to Carolina=*Myrica gale* Linn. (*Angeia palustris* Tidestr., 1910).
inodora Raf. l.c., descr. [*Myrica inodora* Bartr. Travels 405. 1791, descr.]. Alabama=*Myrica inodora* Bartr. (*Cerotheramnus inodorus* (Bartr.) Small).
lanceolata Raf. l.c., descr. (*Myrica cerifera* Linn., var. *arborescens* Michx.; *M. cerifera* auct. Am.). Atlantic seashores of North America=*Myrica cerifera* Linn. (*Cerotheramnus arborescens* Tidestr., 1910).
spicans Raf. op. cit. 12, descr. (*Myrica gale* auct. nonnul.). Germany=*Myrica gale* Linn.
var. *rufa* Raf. l.c., descr.
FAYANA Raf. Alsogr. Am. 12. 1838, descr.=*Myrica* Linn.
azorica Raf. l.c., nom. (*Myrica faya* Ait.). Canary and Azores Islands.
#**GALESTIS** Raf. Alsogr. Am. 11. 1838, descr., subgen. *Cerophora* Raf.=*Myrica* Linn.
MYRICA Linn.
†*fuscata* Raf. Herb. Raf. 58. 1833, nom.; Alsogr. Am. 9. 1838, descr. Kentucky.
heterophylla Raf. Alsogr. Am. l.c., descr. Carolina to Florida (*M. curtissii* Chev.); see Fernald, *Rhodora* 40:409-410. 1938.
pumila Raf. op. cit. 10, descr. Alabama, Florida (*M. pumila* Small, 1896); see Fernald, op. cit. 408.
sessilifolia Raf. op. cit. 10, descr. New Jersey to Florida=*Myrica heterophylla* Raf.
var. *latifolia* Raf. l.c., descr. [Prob.=*M. cerifera* Linn. var. *media* Michx.].
undulata Raf. l.c., descr. [North America].
verrucosa Raf. op. cit. 9, descr. (*Myrica cerifera* sensu Sw.). West Indies.

JUGLANDACEAE

- ***CORYA** Raf. Jour. Phys. Chim. Hist. Nat. 89:260. 1819, nom., *sphalm.*=*Carya* Nutt. (1818), nom. *conserv.* (*Scoria* Raf., 1808, *Hicorius* Raf., 1817; *Hicoria* Raf., 1838).
#**DRIMOCARIA** Raf. Alsogr. Am. 66. 1838, descr., subgen. *Hicoria* Raf. (Type *Hicoria amara* Raf.)=*Carya* Nutt. (1818), nom. *conserv.*, vide supra.
#**GLYCARIA** Raf. Alsogr. Am. 66. 1838, descr., subgen. *Hicoria* Raf. (Type *Hicoria alba* Raf.)=*Carya* Nutt. (1818), nom. *conserv.*, vide supra.
#**HEXACARIA** Raf. Alsogr. Am. 66. 1838, descr., subgen. *Hicoria* Raf. (Type *Hicoria tomentosa* Raf.)=*Carya* Nutt. (1818), nom. *conserv.*, vide supra.
***HICARYA** Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, nom.=*Carya* Nutt. (1818), nom. *conserv.*, vide supra.
**oliveformis* Raf. l.c., nom. Kentucky [*Hicorius oliveformis* Raf. Fl. Ludovic. 109. 1817; *Carya olivaeformis* Nutt.]. North America=*Carya illinoensis* (Wangenh.) K. Koch.

- HICORIA** Raf. New Fl. N. Am. 1:25. 1836, nom.; Alsogr. Am. 65. 1838, descr. (*Carya* Nutt.); Good Book 49. 1840, nom.=*Carya* Nutt. (1818), nom. *conserv.*, vide supra.
**alba* Raf. Alsogr. Am. 66. 1838, nom. [*Carya alba* Nutt.]. Eastern North America=*Carya ovata* (Mill.) K. Koch.
**amara* Raf. l.c., nom. Louisiana=*Carya cordiformis* (Wangenh.) K. Koch.
**aquatica* Raf. l.c., nom. [*Carya aquatica* Nutt.]. Eastern North America=*Carya aquatica* (Michx. f.) Nutt.
**integrifolia* Raf. New Fl. N. Am. 3:95. 1836 [1838], nom.; Alsogr. Am. 67. 1838, descr. Louisiana=*Carya aquatica* (Michx. f.) Nutt.
**maxima* Raf. Alsogr. Am. 66, nom., 67, descr., 1838, (*Carya tomentosa* Nutt. var. *maxima* Nutt.). Pennsylvania to Carolina=*Carya tomentosa* (Poir.) Nutt.
**microcarpa* Raf. l.c., nom. [*Carya microcarpa* Nutt.]. Eastern North America=*Carya ovalis* (Wang.) Sarg.
**myristica* Raf. l.c., nom. [*Carya myristicaeformis* Nutt.]. Southeastern United States=*Carya myristicaeformis* (Michx. f.) Nutt.
**porcina* Raf. l.c., nom. [*Carya olivaeformis* Nutt.]. Eastern North America=*Carya glabra* (Mill.) Sweet.
**scabra* Raf. l.c., descr. Alleghany Mountains.
**sulcata* Raf. l.c., nom. [*Carya sulcata* Nutt.]. Eastern North America=*Carya laciniosa* (Michx. f.) Loud.
**tomentosa* Raf. l.c., nom. [*Carya tomentosa* Nutt.]. Eastern North America=*Carya tomentosa* (Lam.) Nutt.
***HICORIAS** Raf. ex Benth. & Hook. f. Gen. Pl. 3:398. 1880, nom. in syn.=seq.
HICORIUS Raf. Fl. Ludovic. 9, nom., 109, descr. 1817; Am. Monthly Mag. Crit. Rev. 2:268. 1818, nom., nota.; op. cit. 4:195. 1819, nom., nota (*Carya* Nutt.); Jour. Phys. Chim. Hist. Nat. 89:260. 1819, nom., nota (*Carya* Nutt.)=*Carya* Nutt. (1818), nom. *conserv.*, vide supra.
alba Raf. ex Jacks*. Ind. Kew. 1:1149. 1893 (*Hicoria alba* Raf.). Eastern North America=*Carya ovata* (Mill.) K. Koch.
amara Raf. Fl. Ludovic. 109. 1817, descr. (*Juglans alba ovata* Rob. Voy. Louis. 3:510. 1807; *Juglans amara* Michx.); op. cit. 142, nom. Eastern North America=*Carya cordiformis* (Wangenh.) K. Koch.
aquatica Raf. ex Jacks*. l.c. (*Hicoria aquatica* Raf.). Eastern North America=*Carya aquatica* (Michx. f.) Nutt.
integrifolia Raf. Fl. Ludovic. 109. 1817, descr. (*Noyer pacanier amer.* Rob. Voy. Louis. 3:510. 1807); Herb. Raf. 55. 1833, nom.; New Fl. N. Am. 3:95. 1836 [1837], nom. Louisiana=*Carya illinoensis* (Wang.) K. Koch.
maxima Raf. ex Jacks*. l.c. (*Hicoria maxima* Raf.; *Carya tomentosa* Nutt. var. *maxima* Nutt.). Pennsylvania to Carolina=*Carya tomentosa* (Poir.) Nutt.
microcarpa Raf. ex Jacks*. l.c. (*Hicoria microcarpa* Raf.). Eastern North America=*Carya ovalis* (Wang.) Sarg.
myristica Raf. ex Jacks*. l.c. (*Hicoria myristica* Raf.; *Carya myristicaeformis* Nutt.). Eastern North America=*Carya myristicaeformis* (Michx. f.) Nutt.
oliveformis Raf. Fl. Ludovic. 109. 1817, nom. sub *H. integrifolia* Raf. Louisiana=*Carya illinoensis* (Wangenh.) K. Koch.
porcina Raf. ex Jacks*. l.c. (*Hicoria porcina* Raf.)=*Carya glabra* (Mill.) Sweet.
scabra Raf. ex Jacks*. l.c. (*Hicoria scabra* Raf.). Alleghany Mountains.
sulcata Raf. ex Jacks*. l.c. (*Hicoria sulcata* Raf.). Eastern North America=*Carya laciniosa* (Michx. f.) Loud.
tomentosa Raf. ex Jacks*. l.c. (*Hicoria tomentosa* Raf.). Eastern North America=*Carya tomentosa* (Lam.) Nutt.
***HICORYA** Raf. Med. Fl. 2:134, 228. 1830, nom., nota (*Carya* Nutt.)=*Carya* Nutt. (1818), nom. *conserv.*, vide supra.
**amara* Raf. op. cit. 228, nom.=*Carya cordiformis* (Wang.) K. Koch.
**aquatica* Raf. l.c., nom.=*Carya aquatica* (Michx. f.) Nutt.
**oblonga* Raf. l.c., nom.
**oliva* Raf. l.c., nom. [*Hicoria oliveformis* Raf.]=*Carya illinoensis* (Wangenh.) K. Koch.
**porcina* Raf. l.c., nom. [*Hicoria porcina* Raf.]=*Carya glabra* (Mill.) Sweet.
**sulcata* Raf. l.c., nom. [*Hicoria laciniosa* (Michx. f.) Loud.]=*Carya laciniosa* (Michx. f.) Loud.
#**MELANOCARIA** Raf. Alsogr. Am. 66. 1838, descr. subgen. *Juglans* Linn. (Type *Juglans nigra* Linn.)=*Juglans* Linn.

- #**PACANIA** Raf. Alsogr. Am. 65. 1838, *descr.*, subgen. *Hicoria* Raf. (Type *Hicoria oliveformis* Raf.)=*Carya* Nutt. (1818), *nom. conserv.*, vide supra, sect. *Pacania* (Raf.) Rehd.
- #**PIKERIONARIA** Raf. Alsogr. Am. 66. 1838, *descr.*, subgen. *Juglans* Linn. (Type *Juglans cinerea* Linn.)=*Juglans* Linn.
- SCORIA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*=*Hicoria* Raf. (1838)=*Carya* Nutt. (1818), *nom. conserv.*, vide supra.
- alba* Raf. Il.cc., *nom.* (*Juglans alba* Linn.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* Eastern North America=*Carya ovata* (Mill.) K. Koch.
- globosa* Raf. Il.cc., *nom.*; A. Gray l.c., *nom.*
- mucronata* Raf. Il.cc., *nom.*; A. Gray, l.c., *nom.* (*Juglans mucronata* Michx.). Eastern North America=*Carya cordiformis* (Wangenh.) K. Koch.
- pyriformis* Raf. Il.cc., *nom.* [*Juglans pyriformis* Muhl.]; A. Gray l.c., *nom.* Pennsylvania.
- tomentosa* Raf. Il.cc., *nom.* (*Juglans tomentosa* Lam.); A. Gray, l.c., *nom.* Eastern North America=*Carya tomentosa* (Poir.) Nutt.
- SCORIAS** Raf. ex Endl. Gen. Pl. 1126. 1840, *nom.* in syn.=*praec.*

BETULACEAE

- ALNUS** Linn.
- **tomentosa* Raf. Herb. Raf. 57. 1833, *nom.* Cumberland Mountains.
- BETULA** Linn.
- faetnensis* Raf. Chloris Aetn. 8. 1815, *nom.*; J. & C. Presl Delic. Prag. 144. 1822. Sicily=*B. pendula* Roth.
- ethnensis* Raf. ex Regel in DC. Prodr. 16(2):163. 1868, *nom.* in syn. sub *Betula alba* Linn. var. *microphylla* Regel. Sicily=*B. pendula* Roth.
- etnensis* Raf. Specch. Sci. 1:17. 1814, *descr.*; Précis Découv. Somiol. 1814 (page 4 of cover) *nom.*; Jour. Bot. Desv. 4:277. 1814, *nom.* Sicily=*B. pendula* Roth.
- rupestris* Raf. Western Rev. Miscel. Mag. 1:228. 1819, *descr.* Kentucky (Estill County).
- **rupestris* Raf. Herb. Raf. 54. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Northwestern United States (Lewis & Clark).
- CARPINUS** Raf. Fl. Ludovic. 133. 159. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov. provis.* *Carpinus* Linn.=seq.
- **americanum* Raf. Fl. Ludovic. 133. 1817, *nom.*; Louisiana=*Carpinus americanus* Walt.
- CARPINUS** Linn.
- ostryoides* Raf. Med. Repos. III. 2:333. 1811, *nom.* (*C. ostrya* sensu Michx.)=*C. americanus* Walt.
- ZUGILUS** Raf. Fl. Ludovic. 159. 1817, *nom. nov.* *Ostrya* "Linn." [Scop.]; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*=*Ostrya* Scop.
- virginicus* Raf. Fl. Ludovic. l.c., *nom.* (*Carpinus ostrya* Linn.; *Ostrya virginica* Willd.). Louisiana=*Ostrya virginiana* (Mill.) K. Koch.

FAGACEAE

- #**ALBINUS** Raf. Alsogr. Am. 18. 1838, *descr.*, subgen. *Quercus* Linn.
- ARCAULA** Raf. Alsogr. Am. 30. 1838, *descr.*=*Pasania* Oerst. (1866)=*Quercus* Linn. *sensu lat.*
- spicata* Raf. l.c., *descr.* (*Quercus spicata* Sm.). Nepal=*Pasania spicata* Oerst.=*Lithocarpus spicata* (Sm.) Rehd. & Wils.
- BALANAULAX** Raf. Alsogr. Am. 28. 1838, *descr.*=*Pasania* Oerst. (1866)=*Quercus* Linn. *sensu lat.*
- molucca* Raf. ex Jacks*. Ind. Kew. 1:265. 1893 (*Quercus molucca* Linn.). Moluccas (Amboina). (*Pasania molucca* Oerst.).
- rumphi* Raf. ex Jacks*. l.c. (*Quercus molucca* Linn.). Moluccas (Amboina).⁸
- BALANOPLIS** Raf. Alsogr. Am. 29. 1838, *descr.*=*Castanopsis* (D. Don) Spach (1842).
- serrata* Raf. op. cit. 30, *descr.* (*Quercus cuspidata* Thunb.). Japan=*Castanopsis cuspidata* (Thunb.) Schottky.

⁸ See Merrill, Interpret. Rumph. Herb. Amb. 186. 1917. The basis of both names is *Quercus molucca* Rumph. Herb. Amb. 3:85. t. 56. 1743, which in turn is the whole basis of *Quercus molucca* Linn., spelled "moluca" by Rafinesque.

- tribuloides* Raf. op. cit. 29, *descr.* (*Quercus tribuloides* Sm.). Nepal=*Castanopsis tribuloides* (Sm.) A. DC.
- CASTANEA** Linn.
- americana* Raf. Fl. Ludovic. 134. 1817, *nom.* (*Castanea vesca* Gaertn. var. *americana* Pursh); New Fl. N. Am. 3:82. 1836 [1838], *descr.* (*Castanea vesca* Gaertn. var. *americana* Pursh). Canada to Louisiana and Oregon=*C. dentata* (Marsh.) Borkh.
- var. *angustifolia* Raf. New Fl. N. Am. l.c., *descr.*
- var. *latifolia* Raf. op. cit. 83, *descr.*
- pumila* Mill. var. *fulva* Raf. l.c., *descr.* Alleghany Mountains.
- CERRIS** Raf. Alsogr. Am. 29. 1838, *descr.*=*Quercus* Linn., subgen. *Lepidobalanus* (Endl.) Oersted, sect. *Aegilops* (Reichb.) Schwarz.
- australis* Raf. l.c., *nom. nov.* *Quercus cerris* Linn. Europe.
- austriaca* Raf. ex Jacks*. Ind. Kew. 1:494. 1893 (*Quercus austriaca* Willd.). Europe.
- crinita* Raf. ex Jacks*. l.c. (*Quercus crinita* Lam.). Europe.
- dulcis* Raf. Alsogr. Am. 29. 1838, *descr.* Upper Missouri and Oregon (Lewis & Clark).
- macrocarpa* Raf. ex Jacks*. l.c. (*Quercus macrocarpa* Michx.). North America.
- microphylla* Raf. ex Jacks*. l.c. (*Quercus microphylla* Née). Mexico.
- oliveformis* Raf. ex Jacks*. l.c. (*Quercus olivaeformis* Michx. f.). North America.
- paliphleas* Raf. ex Jacks*. l.c., *sphalm.* (*Quercus haliphlaeos* Lam.). Europe.
- salicifolia* Raf. ex Jacks*. l.c. (*Quercus salicifolia* Née). Mexico.
- #**CUSPIDICUS** Raf. Alsogr. Am. 18. 1838, *descr.*, subgen. *Quercus* Linn.
- #**DRYODAPHNIS** Raf. Alsogr. Am. 27. 1838, *descr.* sub *Quercus laurina* Raf., subgen. *provis.* *Quercus* Linn. (Types (*Quercus laurina* Raf., *Q. aprica* Raf., *Q. verrucosa* Raf.)=*Quercus* Linn.
- DRYOPSILA** Raf. Alsogr. Am. 25. 1838, *descr.*, "subg.?" *Quercus* Linn.; Aut. Bot. 144. 1840, *nom.*, subg. *Quercus* Linn.; Good Book 49. 1840, *nom.*=*Quercus* Linn., subgen. *Erythrobalanus* Oersted.
- aprica* Raf. Alsogr. Am. 26. 1838, *nom. alt.* *Quercus aprica* Raf.; Aut. Bot. 144. 1840, *nom.* Tennessee, Kentucky, Illinois, Missouri.
- cinerea* Raf. Alsogr. Am. 27. 1838, *nom. alt.* *Quercus cinerea* Raf.; Aut. Bot. 144. 1840, *nom.* Florida, Carolina.
- cuneifolia* Raf. l.c., *nom. alt.* *Quercus cuneifolia* Raf.; Aut. Bot. 144. 1840, *nom.* Florida.
- laurina* Raf. l.c., *nom. alt.* *Quercus laurina* Raf.; Aut. Bot. 144. 1840, *nom.* Carolina to Florida.
- maritima* Raf. l.c., *nom. alt.* *Quercus maritima* Bartr.; Aut. Bot. 144. 1840, *nom.* Florida.
- oligodes* Raf. op. cit. 28, *nom. alt.* *Quercus oligodes* Raf.; Aut. Bot. 144. 1840, *nom.* [Florida?].
- verrucosa* Raf. op. cit. 26, *nom. alt.* *Quercus verrucosa* Raf.; Aut. Bot. 144. 1840, *nom.* Carolina to Louisiana.
- var. *obliqua* Raf. l.c., *nom.*; Aut. Bot. l.c., *nom.*
- virens* Raf. op. cit. 28, *nom. alt.* *Quercus virens* Raf.; Aut. Bot. 144. 1840, *nom.* Florida and Louisiana=*Q. virginiana* Mill.
- ERIODRYS** Raf. Alsogr. Am. 30. 1838, *descr.*=*Quercus* Linn.
- lanata* Raf. l.c., *descr.* (*Quercus lanata* Sm.). Nepal.
- FAGUS** Linn.
- alba* Raf. Fl. Ludovic. 134. 1817, *nom.* (*F. sylvatica* auct. Am.); New Fl. N. Am. 3:80. 1836 [1838], *descr.* (*F. sylvatica* sensu Pursh). North America=*Fagus grandifolia* Ehrh.
- asplenifolia* Raf. New Fl. N. Am. 3:82. 1836 [1838], *descr.* Europe and Siberia=*F. asplenifolia* Dum.-Cours. (1811).
- †*heterophylla* Raf. op. cit. 80, *descr.* Alleghany Mountains=*F. grandifolia* Ehrh.
- nigra* Raf. op. cit. 81, *descr.* North America=seq.
- rotundifolia* Raf. Atl. Jour. 1:177. 1833, *descr.*; Herb. Raf. 22. 1833, *descr.*; New Fl. N. Am. 3:81. 1836 [1838], *descr.* Texas (type), "Arkansas and Texas, extending to Oregon and Siberia, perhaps even to Europe," Raf. New Fl. N. Am. l.c.=*F. grandifolia* Ehrh. var. *caroliniana* (Loud.) Fern. & Rehd.
- sylvatica* Linn. var. *sanguinea* Raf. New Fl. N. Am. 3:81. 1836 [1838], *descr.* Europe and Siberia.
- #**FINAX** Raf. Alsogr. Am. 28. 1838, *nom. provis.*, subgen. *Quercus* Linn.

- #**LIMNODRIS** Raf. Alsogr. Am. 26. 1838, *descr.*, subgen. *Quercus* Linn.=*Quercus* Linn. subgen. *Erythrobalanus* Oersted. (1866); *Quercus* Linn., sect. *Erythrobalanus* Spach (1842).
- PERYTIS** Raf. Alsogr. Am. 29. 1838, *descr.*=*Cyclobalanopsis* Oerst. (1866)=*Quercus* Linn., sensu lat.
- annulata* Raf. l.c., *nom.* (*Quercus annulata* Sm.). Asia.
- concentrica* Raf. l.c., *nom.* (*Quercus concentrica* Lour.). Indo-China (*Pasania sabulicola* Hickel & A. Camus); see Merr. Trans. Am. Philos. Soc. II. 24(2):130. 1935.
- glauca* Raf. l.c., *nom.* (*Quercus glauca* Thunb.). Japan.
- lamellosa* Raf. l.c., *nom.* (*Quercus lamellosa* Sm.). Himalayan region.
- #**PHELLODRYS** Raf. Alsogr. Am. 26. 1838, *descr.* subgen. *Dryopsila* Raf.=*Quercus* Linn., subgen. *Erythrobalanus* Oersted (1866); *Quercus* Linn., sect. *Erythrobalanus* Spach. (1842).
- QUERCUS** Linn.
- acuta* Raf. Alsogr. Am. 22. 1838, *descr.*; Aut. Bot. 143. 1840, *nom.* Cherokee or Unaka Mountains, North Carolina=*Q. coccinea* Münch.
- **aesculus* Raf. Alsogr. Am. 18. 1838, *nom.*=*Quercus esculus* Linn. Europe.
- angulizans* Raf. op. cit. 22, *descr.*; Aut. Bot. 143, 1840, *nom.* Alabama=? *Q. borealis* Michx.
- aprica* Raf. op. cit. 26, *descr.* Kentucky, Missouri=*Q. imbricaria* Michx.
- aurea* Raf. op. cit. 20, *descr.*; Aut. Bot. 143. 1840, *nom.* Arkansas, Texas=*Q. falcata* Michx.
- carpinifolia* Raf. op. cit. 21, *descr.*; Aut. Bot. l.c., *nom.* Virginia.
- †*chincapin* Raf. op. cit. 18, *nom.*, 23, *descr.*; Aut. Bot. l.c., *nom.* New Jersey to Carolina=*Quercus chinquapin* Pursh=*Quercus prinoides* Willd.
- cinerea* Raf. op. cit. 27, *descr.* Carolina, Florida.
- corticosa* Raf. op. cit. 24, *descr.* Spain, Sicily, Italy.
- cuneifolia* Raf. op. cit. 27, *descr.* Florida.
- dilatata* Raf. op. cit. 24, *descr.*; Aut. Bot. 144. 1840, *nom.* Alleghany and Appalachian Mountains=*Q. marilandica* Münch.
- dispar* Raf. op. cit. 19, *descr.* Europe, near the Rhine River=? *Q. petraea* Linn.
- durinus* Raf. l.c., *descr.* France=? *praec.*
- **edulis* Raf. Med. Fl. 2:255. 1830, *nom.* North America.
- **ferruginea* Raf. Alsogr. Am. 20. 1838, *descr.*; Aut. Bot. 143. 1840, *nom.* Georgia, Florida. An *Q. ferruginea* Michx. f.?
- fusca* Raf. Alsogr. Am. 19. 1838, *descr.*; Aut. Bot. l.c., *nom.* North America.
- gonoloba* Raf. op. cit. 25, *descr.*; Aut. Bot. 144. 1840, *nom.* Kentucky.
- granulata* Raf. op. cit. 21, *descr.*; Aut. Bot. 143. 1840, *nom.* Arkansas, Texas.
- heteroloba* Raf. op. cit. 25, *descr.*; Aut. Bot. 144. 1840, *nom.* Western Kentucky.
- heterophylla* Raf. op. cit. 24, *descr.*; Aut. Bot. l.c., *nom.* Georgia, Florida; cult. Philadelphia=*Quercus heterophylla* Michx. f.
- ilexoides* Raf. op. cit. 23, *descr.*; Aut. Bot. 144. *nom.* Florida.
- **incana* Bartr. Trav. 378. 1791, *descr.*; Raf. Alsogr. Am. 403. 1838, *nom.*; Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.* Florida (*Q. cinerea* Michx., 1803).
- **laurina* Raf. Alsogr. Am. 27. 1838, *descr.*; Aut. Bot. 144. 1840, *nom.* Carolina, Florida=? *Q. obtusa* (Willd.) Ashe.
- longifolia* Raf. Alsogr. Am. 21. 1838, *descr.*; Aut. Bot. 143. 1840, *nom.* Alleghany Mountains.
- **magnolia* Raf. op. cit. 18, *nom.* [*Quercus magnoliaefolia* Née]. Mexico.
- †*maritima* Bartr. Trav. 164. 1791, *descr.*; Raf. Alsogr. Am. 27. 1838, *descr.*; Aut. Bot. 144. 1840, *nom.* Florida.
- **mollis* Raf. Alsogr. Am. 22. 1838, *descr.*; Aut. Bot. 143. 1840, *nom.* Pennsylvania. An *Quercus mollis* Nutt.?
- nigrescens* Raf. Alsogr. Am. 19. 1838, *descr.* Europe=? *Q. petraea* Linn.
- nitida* Raf. op. cit. 20, *descr.*; l.c., *nom.* Carolina and Florida.
- oligodes* Raf. op. cit. 28, *descr.*; Aut. Bot. 144. 1840, *nom.* Florida?
- pagoda* Raf. op. cit. 23, *descr.*; Aut. Bot. l.c., *nom.* (*Quercus falcata* Michx., var., Ell.). Carolina=*Q. falcata* Michx. var. *pagodaefolia* Ell. (*Q. pagodaefolia* (Ell.) Ashe).

- pandurata* Raf. op. cit. 21, *descr.*; Aut. Bot. 144. 1840, *nom.* Alabama.
- prinoides* Raf. op. cit. 22, *descr.*; Aut. Bot. 143. 1840, *nom.* New Jersey, Virginia.
- **repanda* Raf. op. cit. 19, *descr.* (*Q. alba* Linn. var. *repanda* Michx.). Pennsylvania to Carolina.
- retusa* Raf. op. cit. 22, *descr.*; Aut. Bot. l.c., *nom.* Alabama.
- **smilax* Raf. Alsogr. Am. 24. 1838, *descr.* (*Quercus ilex* Linn., "var."). North Africa. An *Quercus smilax* Linn.?
- suberoides* Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. (Paris) 1:226. 1809, *descr.*; Alsogr. Am. 23. 1838, *descr.*; Aut. Bot. 144. 1840, *nom.* (*sphalm.* "saberoides"). Delaware and Pennsylvania to Florida.
- **verrucosa* Raf. Alsogr. Am. 26. 1838, *descr.* Carolina to Louisiana.
- var. *obliqua* Raf. l.c., *descr.* Florida.
- versicolor* Raf. op. cit. 20, *descr.*; Aut. Bot. 143. 1840, *nom.* Carolina to Florida.
- **virens* Raf. Med. Fl. 2:255. 1830, *nom.*; Alsogr. Am. 28. 1838, *descr.* Florida, Louisiana=*Q. virginiana* Mill.
- SCOLODRYS** Raf. Alsogr. Am. 29. 1838, *descr.*=*Quercus* Linn., subgen. *Lepidobalanus* Oersted.
- lyrata* Raf. l.c., *nom.* (*Quercus lyrata* Walt.). Eastern North America.
- rigida* Raf. l.c., *nom.* (*Quercus rigida* Willd.). Mediterranean region.

ULMACEAE

- ABELICEA** Reichb. (1828)=*Zelkova* Spach (1841), *nom. conserv.* (*Abelicea* Reichb., 1828).
- aquatica* Raf. New Fl. N. Am. 3:41. 1836 [1838], *nom.* [*Planera aquatica* J. F. Gmel.]. North America=*Planera aquatica* J. F. Gmel.
- cretica* Raf. l.c., *nom.* [*Planera abelicea* Schult.]. Crete=*Zelkova cretica* Spach (*Z. abelicea* Boiss.).
- sibirica* Raf. l.c., *nom.* [*Planera crenata* Desf.]. Caucasus=*Zelkova crenata* Spach.
- CELTIS** Linn.
- alba* Raf. Fl. Ludovic. 10, *nom.*, 25, *descr.*, 1817 (*L'ilconnu* Rob. Voy. Louis. 3:359. 1807); First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:32. 1836 [1838], *descr.* (*Celtis integrifolia* auct. Am., var.). Missouri, Arkansas, Louisiana, Texas=*C. laevigata* Willd.
- canina* Raf. Am. Monthly Mag. Crit. Rev. 2:43. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.*; Herb. Raf. 56. 1833, *nom.*; New Fl. N. Am. 3:31. 1836 [1838], *descr.* New York (Fishkill, Newburgh, etc.)=*C. occidentalis* Linn. var. *canina* (Raf.) Sarg.
- floridana* Raf. New Fl. N. Am. 3:37. 1836 [1838], *descr.* Alabama, Florida=*C. occidentalis* Linn.
- fusca* Raf. op. cit. 33, *descr.* Florida, Texas, Cuba=*C. laevigata* Willd.
- var. *texensis* Raf. l.c., *descr.* (*Celtis longifolia* Raf., fide Raf. l.c.)=*C. laevigata* Willd.
- heterophylla* Raf. op. cit. 37, *descr.* Alabama=*C. pumila* (Muhl.) Pursh.
- longifolia* Raf. Atl. Jour. 1:177. 1833, *descr.*; Herb. Raf. 22. 1833, *descr.*; op. cit. 56, *nom.*; New Fl. N. Am. 3:33. 1836 [1838], *nom.* sub *C. fusca* Raf. Texas=*Celtis fusca* Raf. var. *texensis* Raf.=*C. laevigata* Willd.
- maritima* Raf. Am. Monthly Mag. Crit. Rev. 2:44. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.*; New Fl. N. Am. 3:35. 1836 [1838], *descr.* Long Island to Chesapeake Bay=*Celtis occidentalis* Linn.
- morifolia* Raf. New Fl. N. Am. 3:34. 1836 [1838], *descr.* Kentucky, Illinois=*C. occidentalis* Linn. var. *cordata* (Pers.) Willd.
- parvifolia* Raf. op. cit. 36, *nom. alt.* *Celtis tenuifolia* Raf. Maryland to Louisiana.
- patula* Raf. op. cit. 37, *descr.* Florida=*C. occidentalis* Linn.
- **pumila* Raf. op. cit. 36, *descr.* (*Celtis occidentalis* Linn. var. *pumila* Michx.). Alleghany Mountains, Pennsylvania to Virginia.
- salicifolia* Raf. op. cit. 34, *descr.* Arkansas, Louisiana.
- tenuifolia* Raf. op. cit. 36, *descr.* (*Celtis pumila* Pursh; *C. occidentalis* Linn. var. *tenuifolia* Lam.). Maryland and Virginia to Louisiana.
- urticifolia* Raf. op. cit. 32, *nom. nov. provis.* *Celtis occidentalis* Linn. New England to Carolina=*C. occidentalis* Linn.

- #**DASTIMA** Raf. Fl. Ludovic. 25. 1817, *nom., nota*, sub *Celtis alba*, subgen. *Celtis* Linn.=*Celtis* Linn.
- SAUROBROMA** Raf. Sylva Tellur. 32. 1838, *descr.*=*Celtis* Linn.
- iguanense* Raf. l.c., *nom.* (*Rhamnus iguanaea* Jacq.; *Zizyphus iguanaea* Lam.). Tropical America=*Celtis iguanaea* (Jacq.) Sarg. (*C. aculeata* Sw.).
- ULMUS** Linn.
- alba* Raf. Fl. Ludovic. 115. 1817, *descr.* (*Orme 1*, Rob. Voy. Louis. 3:521. 1807); First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:38. 1836 [1838], *descr.* (*Ulmus americana* Linn. var. *pendula* auct.). Louisiana, Kentucky, and other states=*U. americana* Linn.
- aquatica* Raf. Fl. Ludovic. 165. 1817, *nom., nota* (*Planera gmelini* Michx.). Louisiana=*Planera aquatica* (Walt.) J. F. Gmel.
- dentata* Raf. New Fl. N. Am. 3:39. 1836 [1838], *descr.* Alabama=? *U. americana* Linn.
- dimidiata* Raf. l.c., *descr.* Florida, Georgia=? seq.
- longifolia* Raf. op. cit. 38, *descr.* Alabama, Tennessee=? *U. alata* Michx.
- obovata* Raf. l.c., *descr.* Kentucky, Illinois=? *U. americana* Linn.
- punguis* Raf. Fl. Ludovic. 115. 1817, *descr.* (*Orme 2*, Rob. Voy. Louis. 3:521. 1807); Herb. Raf. 55. 1833, *nom.* Louisiana.
- **sessilis* Raf. New Fl. N. Am. 3:39. 1836 [1838], *nom. nov. provis.* *Ulmus americana* Linn. North America=*U. americana* Linn.

MORACEAE

- #**COTTANA** Raf. Sylva Tellur. 58. 1838, *descr.* subgen. *Ficus* Linn. (Type *Ficus lutea* Vahl). Tropical Africa=*Urostigma* Gasp. (1844)=*Ficus* Linn., sect. *Urostigma* Endl. (1847).
- FUSTICUS** Raf. New Fl. N. Am. 3:43. 1836 [1838], *descr.*; Am. Man. Mulb. Trees 12. 1839, *descr.*; Good Book 45. 1840, *nom.*=*Chlorophora* Gaudich. (1826).
- glabra* Raf. New Fl. N. Am. 3:44. 1836 [1838], *descr.*; Am. Man. Mulb. Trees 12. 1839, *nom.*; Aut. Bot. 149. 1840, *nom., nota*. Southern Florida, Cuba.
- tataiba* Raf. New Fl. N. Am. 3:45. 1836 [1838], *descr.* (*Morus tinctoria* Linn.); Am. Man. Mulb. Trees 12. 1839, *nom.* Brazil=*Chlorophora tinctoria* (Linn.) Gaudich.
- tinctoria* Raf. New Fl. l.c., *nom. alt. F. vera* Raf. Mexico=*Chlorophora tinctoria* (Linn.) Gaudich.
- vera* Raf. l.c., *descr.*; Am. Man. Mulb. Trees 12. 1839, *nom.* (*Morus tinctoria* Linn.). Central America, Yucatan, Jamaica=*Chlorophora tinctoria* (Linn.) Gaudich.
- xanthoxylon* Raf. l.c., *descr., nom.* (*Morus xanthoxylon* Linn.). Yucatan, Bahamas=*Chlorophora tinctoria* (Linn.) Gaudich.
- GONOSUKE** Raf. Sylva Tellur. 58. 1838, *descr.*=*Covellia* Gasp. (1844)=*Ficus* Linn. sect. *Covellia* Benth. (1880).
- demonum* Raf. l.c., *nom.* (*Ficus daemon* Koen. ex Vahl). India.
- hispida* Raf. l.c., *nom.* (*Ficus hispida* Linn. f.). India.
- scabra* Raf. l.c., *nom.* (*Ficus scabra* Jacq.). India.
- IOXYLON** Raf. Am. Monthly Mag. Crit. Rev. 2:118. 1817, *descr.*; op. cit. 4:195. 1819 (*Maclura* Nutt.); New Fl. N. Am. 3:42. 1836 [1838] (*Maclura* Nutt.)=*Toxylon* Raf. (1818)=*Maclura* Nutt. (1818), *nom. conserv.* (*Toxylon* Raf. 1819; *Toxylon* Raf. 1818).
- pomiferum* Raf. Am. Monthly Mag. Crit. Rev. 2:118. 1817, *descr.* Missouri, Arkansas, etc., cult. Philadelphia=*Maclura pomifera* (Raf.) Schneid.
- JOXYLON** Raf. Jour. Chim. Phys. Hist. Nat. 89:260. 1819, *nom., nota, sphalm.* (*Maclura* Nutt.); Greene, Pittonia 2: 124. 1890; cf. Zabel Mitt. Deutsch. Dendr. Ges. 8:76. 1899=*Toxylon* Raf. (1818)=*Maclura* Nutt. (1818), *nom. conserv.*, vide supra.
- #**KENKRAMIS** Raf. Sylva Tellur. 58. 1838, *descr.* subgen. *Ficus* Linn. (Type, *Ficus palmata* Forsk.)=*Ficus* Linn., sect. *Eusyce* Benth. (1880).
- #**LEIOSUKE** Raf. Sylva Tellur. 58. 1838, *nom. subnud.*, sect. subgen. *Spherosuke* Raf.=*Ficus* Linn.
- ***MACLUREA** Raf. Med. Fl. 2:268. 1830, *nom., sphalm.*=*Maclura* Nutt. (1818), *nom. conserv.*, vide supra sub *Ioxyton* Raf.
- ***MACLURIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*=*praec.*

- MASTOSUKE** Raf. Sylva Tellur. 59. 1838, *descr.*=*Urostigma* Gasp. (1844)=*Ficus* Linn., sect. *Urostigma* Endl. (1847).
- rubiginosa* Raf. l.c., *descr.* (*Ficus australis* Willd.). Australia=*Ficus rubiginosa* Desf.
- MORUS** Linn.
- **alata* Hort. ex Raf. Am. Man. Mulberry Trees 26. 1839, *nom., nota*. Hab.?
- alba* Linn.; Raf. op. cit. 15, *descr.* Eurasia; naturalized Eastern United States.
- var. *alpina* Raf. op. cit. 18, *nom.* Alps of Europe.
- atrata* Raf. op. cit. 16, *descr.* Southern France, Italy.
- cinerea* Raf. op. cit. 17, *descr.*
- columbina* Raf. op. cit. 16, *descr.*
- hispanica* Raf. op. cit. 17, *descr.* Spain.
- hispanica nigrescens* Raf. l.c., *descr.*
- hispanica prolifera* Raf. l.c., *descr.*
- integrifolia* Raf. op. cit. 16, *descr.*
- laciniata* Raf. l.c., *descr.*
- lactiflua* Raf. op. cit. 18, *descr.*, Syria, Lebanon.
- lobata* Raf. op. cit. 16, *descr.*
- lucida* Raf. l.c., *descr.* France.
- rotundifolia* Raf. op. cit. 16, *descr.* France.
- rotundifolia nigrescens* Raf. op. cit. 17, *descr.*
- rubella* Raf. op. cit. 16, *descr.*
- spherica* Raf. op. cit. 16, *descr.*
- spinosa* Raf. op. cit. 17, *descr.*
- syriaca* Raf. op. cit. 17, *descr.* Syria.
- **atrata* Raf. op. cit. 27, *nom.* (*Morus alba* Linn. var. *atrata* Raf. op. cit. 16).
- cretica* Raf. op. cit. 20, *descr.*; Aut. Bot. 150. 1840, *nom., nota*. Crete.
- expansa* Hort. ex Raf. op. cit. 26, *nom., nota*.
- **hispanica* Raf. op. cit. 27, *nom.* (*Morus alba* Linn. var. *hispanica* Raf. op. cit. 17).
- indica* Linn.; Raf. op. cit. 22, *descr.* India to Malaysia.
- var. *arborea* Raf. op. cit. 23, *descr.*
- molucana* Raf. l.c., *descr.* Moluccas.
- italica* Lam.
- var. *etrusca* Raf. op. cit. 20, *descr.* Italy.
- **lucida* Raf. op. cit. 27, *nom.* (*Morus alba* Linn. var. *lucida* Raf. op. cit. 16).
- multicaulis* Hort. ex Raf. New Fl. N. Am. 3:48. 1836 [1838], *descr.* China, Philippines=*Morus multicaulis* Perrottet (1825) fide Raf. Aut. Bot. 150. 1840=*M. alba* Linn. var. *multicaulis* (Pers.) Loud.
- multicaulis* Perrottet [China, Philippines]=*praec.*
- var. *macrophylla* Raf. Am. Man. Mulberry Trees 24. 1839, *descr.*
- parvifolia* Raf. New Fl. N. Am. 3:47. 1836 [1838], *descr.*; Am. Man. Mulberry Trees 31. 1839, *descr.*; Aut. Bot. 149. 1840, *nom.* Alleghany and Appalachian Mountains.
- petiolaris* Raf. Am. Man. Mulberry Trees 24. 1839, *descr.*; Aut. Bot. 150. 1840, *nom.* (*Morus laciniata* Mill.?) "Probably Polynesian."
- pyramidalis* Hort. ex Raf. op. cit. 27, *nom., nota*.
- reticulata* Raf. op. cit. 28, *descr.*; Aut. Bot. 149. 1840, *nom.* Ohio to Tennessee=*M. rubra* Linn.
- †*triparia* Raf. op. cit. 31, *descr.*; New Fl. N. Am. 3:46. 1836 [1838], *descr.*; Aut. Bot. 149. 1840, *nom.* Susquehanna River, Pennsylvania=*M. rubra* Linn.
- rubra* Linn. Eurasia; naturalized in the Eastern United States.
- var. *heterophylla* Raf. Am. Man. Mulberry Trees, New Fl. N. Am. l.c., *descr.*
- pallida* Raf. l.c., *descr.*
- purpurea* Raf. l.c., *descr.*
- **spinosa* Raf. Am. Man. Mulberry Trees 27. 1839, *nom.* (*Morus alba* Linn. var. *spinosa* Raf. op. cit. 17).
- tatarica* Linn. Asia.
- var. *obtusifolia* Raf. op. cit. 22, Volga River.
- pallida* Raf. l.c., *descr.*
- tomentosa* Raf. Fl. Ludovic. 113. 1817, *descr.* (*Murier à fruit blanc* Rob. Voy. Louis. 3:518. 1807); Med. Fl. 2:244. 1830, *nom.*; Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:47. 1836 [1838], *descr.*; Am. Man. Mulberry Trees 30. 1839, *descr.* Louisiana=*Morus alba* Linn.
- **vitifolia* Raf. Aut. Bot. 150. 1840, *descr., nom. nov.* *Morus scabra* sensu Raf. Am. Mulberry Trees 29. 1839, *non* Willd.). Louisiana.

- NECALISTIS** Raf. Sylva Tellur. 58. 1838, *descr.*=*Ficus* Linn., sect. *Sycidium* King (1887).
aspera Raf. l.c., *nom.* [*Ficus aspera* Forst. f.]. New Hebrides.
turbinata Raf. l.c., *nom.* (*Ficus turbinata* Willd.). New Hebrides=praec.
- OLUNTOS** Raf. Sylva Tellur. 58. 1838, *descr.*=*Urostigma* Gasp. (1844)=*Ficus* Linn., sect. *Urostigma* Endl. (1847).
levigata Raf. l.c., *nom.* [*Ficus laevigata* Vahl]. West Indies.
trigona Raf. l.c., *nom.* [*Ficus trigona* Linn. f.]. Guiana.
- ***PAPYRIA** Raf. Am. Man. Mulberry Trees 9. 1839, *nom.*=*Papyrus* Lam. (1798)=*Broussonetia* Vent. (1799), *nom. conserv.* (*Papyrus* Lam., 1798).
- PERULA** Raf. Sylva Tellur. 58. 1838, *descr.*, non Schreb. (1791)=*Urostigma* Gasp. (1844)=*Ficus* Linn., sect. *Urostigma* Endl. (1847).
benghalensis Raf. op. cit. 59, *nom.* [*Ficus benghalensis* Linn.]. India.
retusa Raf. l.c., *nom.* [*Ficus retusa* Linn.]. India.
rubiginosa Raf. l.c., *nom.* [*Ficus rubiginosa* Desf.]. Australia.
- REPHESES** Raf. Sylva Tellur. 59. 1838, *descr.*=*Urostigma* Gasp. (1844)=*Ficus* Linn., sect. *Urostigma* Endl. (1847).
calyptata Raf. l.c., *nom.* [*Ficus calyptata* Vahl]. Africa.
ovata Raf. l.c., *nom.* [*Ficus ovata* Vahl]. Africa.
- #**SPHEROSUKE** Raf. Sylva Tellur. 57. 1838, *descr.*, subgen. *Ficus* Linn.=*Urostigma* Gasp. (1844)=*Ficus* Linn., sect. *Urostigma* Endl. (1847).
- #**SUCOMORUS** Raf. Sylva Tellur. 57. 1838, *descr.* subgen. *Ficus* (Type *Ficus cairica* Linn.)=*Sycomorus* Gasp. (1844)=*Ficus* Linn., sect. *Eusyce* Benth. (1880).
- SUKAMINEA** Raf. New Fl. N. Am. 3:44. 1836 [1838], *nom. nov.* *Fusticus* Raf. (1838)=*Chlorophora* Gaudich. (1826).
- #**SUKEON** Raf. Sylva Tellur. 58. 1838, *descr.*, subgen. *Ficus* Linn. (Type *Ficus glomerata* Roxb.)=*Ficus* Linn., sect. *Neomorphe* King (1888).
- #**SUKOISIA** Raf. Sylva Tellur. 58. 1838, *descr.*, sect. *Spherosuke* Raf.=*Ficus* Linn.
- #**TEREGA** Raf. Sylva Tellur. 58. 1838, *descr.*, subgen. *Ficus* Linn. (Type *Ficus ampelas* Burm. f.)=*Ficus* Linn. sect. *Sycidium* King (1887).
- TOXYLON** Raf. Am. Monthly Mag. Crit. Rev. 4:188. 1818, *nom. nov.* *Maclura* Nutt.; Atl. Jour. 1:146. 1832, *nom.* [*Ioxylon* Raf.]; Med. Fl. 2:268. 1830, *nom.*, *nota* (*Maclura* Nutt.); Loud. Gard. Mag. 8:247. 1832, *nom.*, *nota* (*Maclura* Nutt. 1818 [*Ioxylon* Raf. 1817]), iter. Schlecht. Linnaea 8: Lit.-Ber. 72. 1833, iter. Britten, Jour. Bot. 38:227. 1900; New Fl. N. Am. 3:42. 1836 [1838], *descr.* (*Ioxylon* Raf. 1817; *Maclura* Nutt. 1818)=*Maclura* Nutt. (1818), *nom. conserv.* (*Ioxylon* Raf., 1817; *Ioxylon* Raf., 1819; *Toxylon* Raf., 1818).
aurantiacum Raf. Med. Fl. 2:268. 1830, *nom.*, *nota* (*Maclura aurantiaca* Nutt.)=*Maclura pomifera* (Raf.) Schneid.
maclura Raf. New Fl. N. Am. 3:43. 1836 [1838], *descr.* (*Toxylon pomiferum* Raf.; *Maclura aurantiaca* Nutt.; *Broussonetia tinctoria* Spreng.); Aut. Bot. 149. 1840, *nom.*, *nota*; Am. Man. Mulberry Trees 10, 13. 1839, *nom.* Missouri, Arkansas, Texas=*Maclura pomifera* (Raf.) Schneid.
pomiferum Raf. New Fl. N. Am. 3:43. 1836 [1838], *nom.*, in syn. sub *Toxylon maclura* Raf.=*Maclura pomifera* (Raf.) Schneid.
- ***TOXYLUS** Raf. New Fl. N. Am. 3:42. 1836 [1838], *nom.* sub *Toxylon* Raf. l.c.=praec.
- #**TRAXISUKE** Raf. Sylva Tellur. 58. 1838, *nom.* *subnud.*, sect., subgen. *Spherosuke* Raf.=*Ficus* Linn.
- TREMOTIS** Raf. Sylva Tellur. 59. 1838, *descr.*=*Synoecia* Miq. (1848)=*Ficus* Linn. sect. *Synoecia* Miq. (1867).
cordata Raf. l.c., *descr.* (*Ficus auriculata* Lour.). Indo-China (Annam)=*Ficus auriculata* Lour. (*Ficus roxburghii* Wall.); see Merrill, Trans. Am. Philos. Soc. II. 24(2):135. 1935.
- #**TULOSUKE** Raf. Sylva Tellur. 58. 1838, *nom.*, sect., subgen. *Spherosuke* Raf.=*Ficus* Linn.
- VARINGA** Raf. Sylva Tellur. 58. 1838, *descr.* (*Varinga* Rumph. Herb. Amb. 3:134. t. 85. 1743)=*Ficus* Linn., sect. *Eusyce* Benth., 1880.
repens Raf. l.c., *nom.* (*Ficus pumila* Linn.). Asia=*Ficus pumila* Linn.
- ***XOXYLON** Raf. Am. Monthly Mag. Crit. Rev. 4:187. 1819, *nom.*, *sphalm.*=*Toxylon* Raf. (1818)=*Maclura* Nutt. (1818), *nom. conserv.* (*Ioxylon* Raf., 1817; *Ioxylon* Raf., 1819; *Toxylon* Raf., 1818).

URTICACEAE

- ***ADESIA** Raf. ex Eaton, Man. ed. 3, 499, 1822, *nom.* sub *Urtica pumila* Linn.; Raf. New Fl. N. Am. 1:63. 1836, *nom.*, *nota.*, *sphalm.*=*Adicea* Raf. (1815)=*Pilea* Lindl. (1821), *nom. conserv.* (*Adicea* Raf., 1815).
- ***trinerva** Raf. ex. Eaton, l.c., *nom.*, *sphalm.* North America=*Adicea trinerva* Raf.=*A. pumila* (Linn.) Raf.=*Pilea pumila* (Linn.) A. Gray.
- †**ADICEA** Raf. Anal. Nat. Tabl. Univ. 179. 1815, *nom.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; New Fl. N. Am. 1:63. 1836, *nom.* sub *Adike* Raf.=*Pilea* Lindl. (1821), *nom. conserv.* (*Adicea* Raf., 1815).
- ***glaberrima** Raf. Med. Fl. 2:186. 1830, *nom.*, *nota* (*Urtica pumila* Linn.). North America=*Adicea pumila* (Linn.) Raf.=*Pilea pumila* (Linn.) A. Gray.
- glabra** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* (*Urtica* sp.). Kentucky. Prob.=praec.
- pumila** Raf. ex Torr. Fl. N.Y. 2:223. 1843, *nom.* in syn. sub *Adike pumila* (Linn.) Raf. North America=*Pilea pumila* (Linn.) A. Gray.
- trinerva** Raf. ex Torr. l.c., *nom.* in syn. sub *Adike pumila* (Linn.) Raf. North America=praec.
- ADIKE** Raf. New Fl. N. Am. 1:63. 1836, *descr.*; Fl. Tellur. 1:86. 1836 [1837], *nom.*; op. cit. 3:48. 1836 [1837], *descr.*; Good Book 44. 1840, *nom.*=*Adicea* Raf. (1815)=*Pilea* Lindl. (1821), *nom. conserv.*
- allophyla** Raf. Fl. Tellur. 3:48. 1836 [1837], *descr.* (*Urtica trianthemoides* Sw.). Haiti=*Pilea microphylla* (Linn.) Liebm. var. *trianthemoides* (Sw.) Griseb.
- glaberrima** Raf. New Fl. N. Am. 1:64. 1836, *descr.* (*Urtica pumila* sensu Michx.). North America=*Pilea pumila* (Linn.) A. Gray.
 var. *ramosa* Raf. l.c., *descr.*
- lanceolata** Raf. l.c., *descr.* (*Urtica pumila* sensu Ell.). Carolina=*Pilea pumila* (Linn.) A. Gray.
- pumila** Raf. op. cit. 63, *descr.* (*Urtica pumila* Linn.). Alleghany Mountains=*Pilea pumila* (Linn.) A. Gray.
 var. *minima* Raf. l.c., *descr.*
- rhomboidea** Raf. op. cit. 64, *descr.* Kentucky=*Pilea pumila* (Linn.) A. Gray.
- CALOSTIMA** Raf. Fl. Tellur. 3:47. 1836 [1837], *descr.*; Sylva Tellur. 117. 1838, *descr.*=*Urtica* Gaudich. (1826).
aculeata Raf. l.c., *descr.* (*Urtica "baccata"* [*baccifera* Linn.]; *Urtica arborescens baccifera* Plumier, Pl. Am. 259. t. 260. 1760; *Urtica baccifera* Linn.; Andr. Bot. Repos. 7: t. 454. 1807). West Indies=*Urtica baccifera* (Linn.) Gaudich.
- ***LITHOCNIDE** Raf. Fl. Tellur. 3:48. 1836 [1837], *descr.*=*Rousselia* Gaudich. (1826).
- ***lappulacea** Raf. l.c., *descr.* (*Urtica lappulacea* Sw.). West Indies=*Rousselia humilis* (Sw.) Urb. (*R. lappulacea* Gaudich.).
- LITHOCNIDES** Raf. ex. Jacks*. Ind. Kew. 2:98. 1894, *sphalm.*=*Lithocnide* Raf.=*Rousselia* Gaudich. (1826).
- lappulacea** Raf. ex Jacks*. l.c.=*Rousselia humilis* (Sw.) Urb. West Indies.
- NIRWAMIA** Raf. Sylva Tellur. 35. 1838, *descr.*=*Pellionia* Gaudich. (1826), *nom. conserv.* (*Polychroa* Lour., 1790).
pellucida Raf. l.c., *descr.* (*Nir-wam* [*Niwami*] No. 98 Thunb. Fl. Jap. 367. 1784, i.e., *Frutex urticae foliis et facie*). Japan=*Pellionia scabra* Benth. (1861); see Nakai, Bot. Mag. Tokyo 41:515. 1927=*Pellionia pellucida* (Raf.) Merr. Jour. Arnold Arb. 29:211. 1948.
- OBLIXILIS** Raf. Med. Fl. 2:272. 1830, *nom.*, subgen. *Urtica* Linn.; Fl. Tellur. 3:49. 1836 [1837], *descr.* ut gen.=*Laportea* Gaudich. (1826), *nom. conserv.* (*Urticastrum* Fabr., 1759).
canadensis Raf. ex Jacks*. Ind. Kew. 2:323. 1894 (*Urtica canadensis* Linn.). North America=*Laportea canadensis* (Linn.) Gaudich.
divaricatus Raf. ex Jacks*. l.c. (*Urtica divaricata* Linn.). North America=*Laportea canadensis* (Linn.) Gaudich.
- PARIETARIA** Linn.
- ***alsinefolia** Raf. Chloris Aetn. 4. 1815, *nom.* Sicily. An P. alsinefolia Delile?
- ***falcata** Raf. Herb. Raf. 52. 1833, *nom.*; Aut. Bot. 53. 1840, *descr.* Siberia and Oregon.
- ***heterophylla** Raf. Med. Fl. 2:250. 1830, *nom.*; Aut. Bot. 52. 1840, *descr.* (*heterophylla*). Kentucky, Tennessee.
- ***rotundifolia** Raf. Aut. Bot. 53. 1840, *descr.* Florida.

- **rufa* Raf. Med. Fl. 2:250. 1830, *nom.*; Herb. Raf. 38. 1833, *nom.*; Aut. Bot. 53. 1840, *descr.* Upper Missouri.
 **suffruticosa* Raf. Aut. Bot. 52. 1840, *descr.* West Indies, and ? Florida.
 **virgata* Raf. l.c., *descr.* Appalachian Mountains of Virginia.
PENTOCNIDE Raf. Fl. Tellur. 3:48. 1836 [1837], *descr.*=*Pouzolzia* Gaudich (1826).
glomerata Raf. l.c., *descr.* [*Urtica glomerata* Klein]=*Pouzolzia zeylanica* (Linn.) Benn. (*P. indica* Gaudich.). West Indies.
 †**SELEPSION** Raf. Princ. Somiol. 31. 1814, *nom.*; Anal. Nat. Tabl. Univ. 179. 1815, *nom.*; Fl. Tellur. 1:86. 1836 [1837], *nom.*; op. cit. 3:48. 1836 [1837], *descr.*=*Urtica* Linn.
 **montanum* Raf. Fl. Tellur. 3:48. 1836 [1837], *nom.*
 **urticae* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
 **vernum* Raf. Fl. Tellur. 3:48. 1836 [1837], *nom.* [*Urtica verna* Raf.]. Kentucky.
 ***UDRASTINA** Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*=*Laportea* Gaudich. (1826), *nom. conserv.* (*Urticastrum* Fabr. 1759).
 **cannabina* Raf. l.c., *nom.* (*Urtica canadensis* Linn.). Kentucky=*Laportea canadensis* (Linn.) Gaudich.
URTICA Linn.
alba Raf. Fl. Ludovic. 114. 1817, *nom.*, *nota* (*Ortie blanche* Rob. Voy. Louis. 3:519. 1807). Louisiana.
 **baccata* Raf. Sylva Tellur. 117. 1836, *nom.* in syn. sub *Calostima* Raf.; Fl. Tellur. 3:47. 1836 [1837], *nom.*, *sphalm.*=*Urtica baccifera* Linn.=*Urtica baccifera* (Linn.) Gaudich. South America.
gracilis Raf. Atl. Jour. 1:16. 1832, *descr.* Kentucky.
leucotrys Raf. Fl. Ludovic. 114. 1817, *descr.* (*Ortie 3*, Rob. Voy. Louis. 3:519. 1807). Louisiana.
 **longifolia* Raf. Herb. Raf. 61. 1833, *nom.*; Raf. ex Wedd. Monog. Urt. 78. 1856, *nom.* in syn. Kentucky or Illinois=*U. procera* Muhl. (1805); see Fernald, *Rhodora* 28:195. 1926.
 **rotundifolia* Raf. op. cit. 52, *nom.* Rocky Mountains or Oregon.
rubra Raf. Fl. Ludovic. 113. 1817, *descr.* (*Ortie rouge* Rob. Voy. Louis. 3:519. 1807). Louisiana.
verna Raf. Atl. Jour. 1:16. 1832, *descr.*; Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 2:26. 1836 [1837], *descr.* Kentucky.
 var. *gracilis* Raf. New Fl. N. Am. l.c., *descr.*

PROTEACEAE

- BANKSIA** Linn. f. (1781), non *Banksia* J. R. & G. Forst. (1776), *nom. conserv.* (*Sirmuelleria* O. Kuntze, 1881).
 **grandis* Hort. ex Raf. Aut. Bot. 142. 1840, *descr.* Australia. An *Banksia grandis* Willd.?
serrata Linn. f. var. *latifolia* Raf. l.c., *descr.* Australia.
ICMANE Raf. Aut. Bot. 141. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.* Ex *descr.*=*Hakea* Schrad. (1797).
 **heterophylla* Raf. op. cit. 142, *descr.* (*Banksia heterophylla* hort.). Australia.
nerifolia Raf. l.c., *descr.*; Pennell, l.c., *nom.* Australia.
PROTEA Linn.
 **pilosa* Raf. Aut. Bot. 142. 1840, *descr.* (*Protea tomentosa* hort., non Thunb.). South Africa=? *Leucospermum ellipticum* R. Br.
 **rugosa* Raf. l.c., *descr.* (*Protea pallens* Thunb., non Linn.). South Africa=*Leucospermum decurrens* R. Br.

LORANTHACEAE

- ALLOHEMIA** Raf. Sylva Tellur. 125. 1838, *descr.*=*Phthirusa* Mart. (1830).
pedunculata Raf. l.c., *nom.* [*Loranthus pedunculatus* Jacq.]. Colombia.
purpurea Raf. l.c., *nom.* (*Loranthus occidentalis* Linn.). South America.
uniflora Raf. l.c., *nom.* [*Loranthus uniflorus* Jacq.]. Santo Domingo.
ANTRIBA Raf. Sylva Tellur. 126. 1838, *descr.*=*Loranthus* Linn., *sensu lat.* (*Scurrula* Linn.).
budleoides Raf. l.c., *nom.* (*Loranthus budleoides* Desr., *sphalm.* Raf. "R[uiz] & P[avon].") East Indies [an *Philippines*?]=*Loranthus scurrula* Linn. (*Scurrula parasitica* Linn., vel *L. philippensis* Cham. & Schlecht.).

- EPICOILA** Raf. Sylva Tellur. 126. 1838, *descr.*=*Psittacanthus* Mart. (1830).
grandiflora Raf. l.c., *nom.* (*Loranthus grandiflorus* Ruiz & Pavon). Peru.
ETUBILA Raf. Sylva Tellur. 125. 1838, *descr.*=*Loranthus* Linn., *sensu lat.* (*Dendrophthoe* Mart., 1830, quoad *L. longiflorus* Linn.).
brasiliensis Raf. l.c., *nom.* (*Loranthus brasiliensis* Desr.). Brazil.
dichotoma Raf. l.c., *nom.* (*Loranthus dichotomus* Ruiz & Pavon). Peru.
ferruginea Raf. op. cit. 159, *descr.* Celebes.
longiflora Raf. op. cit. 125, *nom.* (*Loranthus longiflorus* Desr.). India=*Dendrophthoe falcata* (Linn. f.) Ettingsh.
maculata Raf. op. cit. 159, *descr.* Celebes.
GLUTAGO Comm. ex Poir. (1821); Raf. Sylva Tellur. 126. 1838, *descr.*=*Oryctanthus* Eichl. (1868).
spicata Raf. l.c., *nom.* (*Loranthus spicatus* Jacq.). Colombia=*Oryctanthus spicatus* (Jacq.) Eichl.
HELISANTHERA Raf. Ann. Gén. Sci. Phys. 6:87. 1820, *nom. nov.* *Helicia* Pers. (1805), non Lour. (1790)=*Loranthus* Linn., *sensu lat.* (*Helixanthera* Lour. 1790).
HEMITRIA Raf. Ann. Gén. Sci. Phys. 6:79. 1820, *nom.*=*Phthirusa* Mart. (1830).
uniflora Raf. ex Jacks*. Ind. Kew. 1:1127. 1893 (*Loranthus uniflorus* Jacq.). Santo Domingo=*Phthirusa uniflora* (Jacq.) Eichl.
HYPHIPUS Raf. Sylva Tellur. 125. 1838, *descr.*=*Psittacanthus* Mart. (1830).
bracteata Raf. l.c., *nom.* (*Loranthus cupulifer* H.B.K.). Peru.
trigona Raf. l.c., *nom.* (*Loranthus americanus* Linn.). Tropical America.
ITICANAL Raf. Sylva Tellur. 125. 1838, *descr.*=*Loranthus* Linn., *sensu lat.* (*Scurrula* Linn.).
loniceroides Raf. l.c., *nom.* (*Loranthus loniceroides* Linn.). India=*Loranthus scurrula* Linn. (*Scurrula parasitica* Linn.).
MEIENA Raf. Sylva Tellur. 125. 1838, *descr.*=*Loranthus* Linn., *sensu lat.* (*Dendrophthoe* Mart., 1830).
axillaris Raf. l.c., *nom.* (*Loranthus pentandrus* Linn.). India. (*Dendrophthoe pentandra* Miq.).
OZARTHIS Raf. Fl. Tellur. 4:92. 1836 [1838], *descr.*=*Viscum* Linn.
capensis Raf. l.c., *descr.* (*Viscum capense* Linn. f.). South Africa=*Viscum capense* Linn. f.
opuntioides Raf. l.c., *nom.* [*Viscum opuntioides* Linn.]. West Indies=*Dendrophthoe opuntioides* (Linn.) Eichl.
paradoxa Raf. l.c., *descr.* (*Viscum verticillatum* Linn.; *Cactus pendulus* Sw.; *Cassytha baccifera* "Sal." [Mill.]). West Indies=*Phoradendron verticillatum* (Linn.) Druce (*P. trinervium* Griseb.), et quoad syn. Sw. et Mill., *Rhipsalis cassytha* Gaertn.
triquetra Raf. l.c., *descr.* (*Viscum articulatum* Burm. f.). Indo-Malaya=*Viscum articulatum* Burm. f.
PELTOMESA Raf. Sylva Tellur. 126. 1838, *descr.*=*Struthanthus* Mart. (1830).
acuminata Raf. l.c., *nom.* (*Loranthus acuminatus* Ruiz & Pavon). Peru.
SCURRULA Linn.=*Loranthus* Linn. (1762), *sensu lat. nom. conserv.* (*Scurrula* Linn., 1753).
cinerea Raf. Sylva Tellur. 159. 1838, *descr.* Celebes.
elliptica Raf. op. cit. 125, *nom.* (*Loranthus tetrapetalus* Linn. f.). New Zealand.
 **obovata* Raf. l.c., *nom. nov.* *Loranthus scurrula* Linn. South-eastern Asia.
umbellata Raf. l.c., *nom.* (*Loranthus tetrandrus* Ruiz & Pavon). Peru.
STEIROTIS Raf. Ann. Gén. Sci. Phys. 6:79. 1820, *nom.* (Type *Loranthus pedunculatus* Jacq.). Colombia=*Struthanthus* Mart. (1830).
STREPSIMELA Raf. Sylva Tellur. 159. 1838, *descr.*=*Loranthus* Linn., *sensu lat.* (*Helixanthera* Lour., 1790).
coccinea Raf. l.c., *descr.* Borneo=*Loranthus pentapetalus* Roxb.=*Helixanthera parasitica* Lour.
TAGUARIA Raf. Sylva Tellur. 125. 1838, *descr.* (Ind. Kew. 2:1032. 1895 "Aguaria," *sphalm.*)=*Gaiadendron* G. Don 1834).
elliptica Raf. l.c., *nom.* (*Loranthus ellipticus* Ruiz & Pavon). Peru.
laurifolia Raf. l.c., *nom.* (*Loranthus laurifolius* H.B.K.). Colombia.

TAGUARIA (continued).

- nitida* Raf. l.c., nom. (*Loranthus nitidus* H.B.K.). Ecuador.
punctata Raf. l.c., nom. (*Loranthus punctatus* Ruiz & Pavon). Peru.
puracensis Raf. ex Jacks*. Ind. Kew. 2:1032. 1895 (*Loranthus puracensis* H.B.K.). Ecuador.
 **puracensis* Raf. Sylva Tellur. l.c., nom. (*Loranthus puracensis* H.B.K.)=praec.
vera Raf. l.c., nom. (*Loranthus tagua* H.B.K.). Colombia.

VISCUM Linn.

- leucarpum* Raf. Fl. Ludovic. 79. 1817, descr. (*Viscum album* sensu Walter, non Linn.; *V. flavescens* Pursh; *Viscum* Rob. Voy. Louis. 3:458. 1807); Am. Monthly Mag. Crit. Rev. 2:176. 1818, nom. (*V. flavescens* Pursh); New Fl. N. Am. 3:23. 1836 [1838], descr. Western Louisiana, Texas=Phoradendron flavescens (Pursh) Nutt.
leucocarpum Raf. ex DC. Prodr. 4:280. 1830, nom. in syn.=praec.
oblongifolium Raf. New Fl. N. Am. 3:23. 1836 [1838], descr. Florida.=Phoradendron flavescens (Pursh) Nutt.
ochroleucum Raf. l.c., descr. (*Viscum verticillatum* sensu Ell., non Linn.). New Jersey to Florida=Phoradendron flavescens (Pursh) Nutt.
rugosum Raf. op. cit. 24, descr. Delaware and Virginia=Phoradendron flavescens (Pursh) Nutt.
 †*serotinum* Raf. Ann. Gén. Sci. Phys. 5:348. 1820, descr.; Isis von Oken 1821, 2:977. 1821, descr.; First Cat. Bot. Gard. Transylv. Univ. 16. 1824, nom.; Med. Fl. 2:275. 1830, nom.; New Fl. N. Am. 3:22. 1836 [1838], descr. Kentucky, Illinois, Missouri=Phoradendron flavescens (Pursh) Nutt.
 **vulram* Raf. New Fl. N. Am. 3:24. 1836 [1838], descr. (*Viscum foliis longioribus baccis rubris* Catesby, Nat. Hist. Carol. 2:81. t. 81. 1733). Bahamas; on *Sweetenia* and other trees=Viscum rubrum Linn.=Phoradendron rubrum (Linn.) Griseb.

SANTALACEAE

- CALINUX** Raf. Med. Repos. II. 5:353. 1808, nom. nov. *Pyrularia* Michx.; Jour. Bot. (Paris) 2:172. 1809, nom. (*Pyrularia* Michx.); Am. Monthly Mag. Crit. Rev. 2:176. 1818, nom., nota (*Hamiltonia* Muhl. ex Willd.; *Pyrularia* Michx.)=Pyrularia Michx. (1803).
CALYNUX Raf. Jour. Phys. Chim. Hist. Nat. 89:257. 1819, nom., nota (*Hamiltonia* Muhl. ex Willd.; *Pyrularia* Michx.)=praec.
COMANDRA Nutt.
cuneifolia Raf. New Fl. N. Am. 2:33. 1836 [1837], descr. Western Kentucky=C. umbellata (Linn.) Nutt.
elliptica Raf. l.c., descr. (*Comandra umbellata* Nutt.?). Eastern North America=C. umbellata (Linn.) Nutt.
media Raf. l.c., descr. New Jersey, Virginia=C. umbellata (Linn.) Nutt.
obovata Raf. l.c., descr. Alleghany Mountains=C. umbellata (Linn.) Nutt.
obtusifolia Raf. l.c., descr. Ohio, Illinois=C. umbellata (Linn.) Nutt.
umbellulata Raf. l.c., nom. Eastern North America=C. umbellata (Linn.) Nutt.
NESTRONIA ^o Raf. New Fl. N. Am. 3:12. 1836 [1838], descr.; op. cit. 95, nom.; Fl. Tellur. 4:106. 1836 [1838], descr., Alsogr. Am. 64. 1838, nom.; Good Book 45. 1840, nom.; Aut. Bot. 6. 1840, nom. (*Darbya* A. Gray, 1846).
cuneata Raf. New Fl. N. Am. 3:14. 1836 [1838], descr., sub *N. ? undulata* Raf. (*Rhamnus ? cuneatus* Dougl.). Oregon=Ceanothus cuneatus (Dougl.) Nutt. (Rhamnaceae).
umbellula Raf. New Fl. N. Am. l.c., descr.; Fl. Tellur. 4:107. 1836 [1838], descr. (sphalm. "umbellata"); Aut. Bot. 6. 1840, nom. Georgia, Florida. (*Darbya umbellulata* A. Gray).
umbellulata Raf. ex Jacks*. Ind. Kew. 2:309. 1894=praec.
undulata Raf. New Fl. N. Am. 3:13. 1836 [1838], descr. Fl. Tellur. 4:107. 1836 [1838], descr. Georgia, Florida.

^o By some authors reduced to *Buckleya* Torr. (1843), the latter name conserved against *Nestronia* Raf. (1838). However, Robinson and Fernald (1908), Britton & Brown (1913), and Small (1933), recognize *Nestronia* Raf. as generically distinct. As thus interpreted *Darbya* A. Gray (1846) is a synonym.

OLACACEAE

- PIMECARIA** Raf. Alsogr. Am. 64. 1838, descr.=Ximenia Linn. odorata Raf. op. cit. 65, descr. (Bartr. Trav. 114-15. 1791, descr., cum nom. "Wild Lime or Tallow Nut"). Florida=Ximenia americana Linn.
 ***SPERMOXYRON** Raf. Fl. Tellur. 4:93. 1836 [1838], descr., sphalm.=Spermaxyrum Labill. (1806)=Olex Linn.

ARISTOLOCHACEAE

- ***ALPAN** Bosc ex Raf. Sylva Tellur. 13. 1838, nom. in syn. [*Alpam* Rheede, Hort. Malabar. 6:51. t. 28. 1686]=Apama Lam. (1781).
AMBUYA Raf. Fl. Tellur. 4:98. 1836 [1838], descr.=Aristolochia Linn.
labiosa Raf. l.c., descr. (*Aristolochia labiosa* Ker-Gawl. Bot. Reg. 8: t. 689. 1823; Sims, Bot. Mag. 52: t. 2545. 1825; *Aristolochia ringens* Link & Otto, Ic. Pl. Sel. 1:33. t. 13. 1820-28, non Vahl). Brazil.
APAMA Lam.; Raf. Sylva Tellur. 13. 1838, descr.
laurifolia Raf. l.c., descr. [*Alpam* Rheede, Hort. Malabar. 6:51. t. 28. 1686]. India=Brangantia wallichii R. Br.=Apama siliquosa Lam.
ARISTOLOCHIA Linn.
coriacea Raf. Atl. Jour. 1:146. 1832, nom. (*Aristolochia* s.n. Torr. Ann. Lyc. Nat. Hist. N. Y. 2:242. 1827, descr.). Canadian River=Aristolochia tomentosa Sims.
dodecandra Raf. Med. Fl. 1:62. 1828, nom. sub *Endodeca* Raf. Hab.?
tripteris Raf. Fl. Ludovic. 24. 1817, descr. (*Aristolochie de la Louisiane* Rob. Voy. Louis. 3:356. 1807). Louisiana.
ASARUM Linn.
canadense Linn. North America.
 var. *acutifolium* Raf. Med. Fl. 1:264. 1838, nom., nota. Taconic Mountains, New York.
macrophyllum Raf. l.c., nom.
pumilum Raf. l.c., nom.
furcatum Raf. New Fl. N. Am. 2:20. 1836 [1837], descr. Appalachian Mountains?
medium Raf. l.c., descr. "Missouri and upper lakes."
parvifolium Raf. l.c., descr. North Carolina.
rotundifolium Raf. Herb. Raf. 52. 1833, nom.; New Fl. N. Am. 2:21. 1836 [1837], descr. "Orion Mts." i.e., Rocky Mountains.
 #**CLEMATOPS** Raf. Fl. Tellur. 4:97. 1836 [1838], descr. subgen. *Aristolochia* Linn. (Type *Aristolochia anguicida* Jacq.)=Aristolochia Linn.
 ***DASYPHONION** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, nom.=Aristolochia Linn.
 **tomentosum* Raf. l.c., nom. (*Aristolochia [tomentosa]* Sims). Kentucky.
DICTYANTHES Raf. Loud. Gard. Mag. 8:247. 1832, nom., iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900=Aristolochia Linn.
labiosa Raf. ex Jacks*. Ind. Kew. 1:753. 1893 (*Aristolochia labiosa* Ker-Gawl.). Brazil.
DIGLOSSELIS Raf. Fl. Tellur. 4:98. 1836 [1838], descr.=Aristolochia Linn.
cymbifera Raf. l.c., descr. (*Aristolochia cymbifera* Mart. & Zucc. Nov. Gen. Sp. Pl. 1:76. t. 49. 1824; Lindl. Bot. Reg. 18: t. 1543. 1832). Brazil.
latifolia Raf. l.c., descr. (*Aristolochia ringens* Vahl). West Indies.
trinervis Raf. l.c., descr. (*Aristolochia bilabiata* Linn.). Santo Domingo.
EINOMEIA Raf. Med. Fl. 1:62. 1828, descr., iter. Man. Med. Bot. 62. 1840; Casket 1830:568. 1830, nom.; Loud. Gard. Mag. 8:247. 1832, nom., nota, iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten Jour. Bot. 38:227. 1900; Raf. Fl. Tellur. 4:98. 1836 [1838], descr. (Type *Aristolochia pentandra* Jacq.)=Aristolochia Linn.
bracteata Raf. Fl. Tellur. 4:98. 1836 [1838], nom. (*Aristolochia pentandra* Jacq.). Cuba.
pentandra Raf. ex Jacks*. Ind. Kew. 1:824. 1893 (*Aristolochia pentandra* Jacq.). Cuba.
ENDODECA Raf. Med. Fl. 1:62. 1828, descr., subgen. *Aristolochia* Linn., iter. Man. Med. Bot. 62. 1841; Loud. Gard. Mag. 8:247. 1833, nom., ut gen., iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900; Raf. Fl. Tellur. 4:98. 1836 [1838], descr.=Aristolochia Linn.

- dodecandra* Raf. ex Jacks*. Ind. Kew. 1:840. 1893 (*Aristolochia dodecandra* Raf.) [Eastern North America].
- hastata* Raf. Fl. Tellur. 4:99. 1836 [1838], *nom.* (*Aristolochia hastata* Nutt.). Eastern North America=*Aristolochia serpentaria* Linn. var. *hastata* (Nutt.) Duchartre.
- sempervirens* Raf. l.c., *nom.* (*Aristolochia sempervirens* Linn.). Crete.
- serpentaria* Raf. ex Jacks*. Ind. Kew. 1:840. 1893 (*Aristolochia serpentaria* Linn.). Eastern North America.
- ENDOTHECA** Raf. ex Jacks*. Ind. Kew. 1:840. 1893, *sphalm.*=*Endodeca* Raf. (1828)=*Aristolochia* Linn.
- #ERTOGLOSSA** Raf. Fl. Tellur. 4:97. 1836 [1837], *descr.*, subgen. *Aristolochia* Linn. (Type *Aristolochia surinamensis* Willd.).
- #GLOSSULA** Raf. Med. Fl. 1:62. 1828, *descr.*, iter. Man. Med. Bot. 62. 1841, subgen. *Pistolochia* Raf.; Loud. Gard. Mag. 8:247. 1832, *nom.*, *nota*, sub *Aristolochia* Linn. (gen. vel subgen.), iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900=*Glossula* Reichb. (1837) non Lindl. (1824)=*Aristolochia* Linn.
- #GLOSSURA** Raf. Fl. Tellur. 4:97. 1836 [1837], *descr.* subgen. *Aristolochia* Linn. (Type *Aristolochia caudata* Jacq.)=*Aristolochia* Linn.
- HEXAPLECTRIS** Raf. Fl. Tellur. 4:97. 1836 [1838], *descr.*=*Aristolochia* Linn.
- bicolor* Raf. l.c., *descr.* (*Aristolochia trilobata* Linn.; Lindl. Bot. Reg. 17: t. 1399. 1831). South America.
- fusca* Raf. l.c., *descr.* (*Aristolochia caudata* Booth ex Lindl. Bot. Reg. 17: t. 1453. 1831, non Jacq.). Brazil=*Aristolochia macroura* Gomez.
- HEXASTYLIS** Raf. Neogen. 3. 1825, *descr.*; Fl. Tellur. 4:99. 1836 [1838], *descr.*, non *Hexastylis* Raf. 1837=*Asarum* Linn.
- arifolia* Raf. Fl. Tellur. 4:99. 1836 [1838]. (*Asarum arifolium* Michx.). Carolina to Kentucky=*Asarum arifolium* Michx.
- ISIPHIA** Raf. Med. Fl. 2:232. 1830, *nom.*, *nota*=*Aristolochia* Linn.
- glabra* Raf. l.c., *nom.* (*Aristolochia siphon* L'Hérit.). North America=A. *durior* Hill.
- tomentosa* Raf. l.c., *nom.* [*Aristolochia tomentosa* Sims]. North America.
- tripteris* Raf. l.c., *nom.* [*Aristolochia tripteris* Raf.]. Louisiana.
- ISOTREMA** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.*, *nota* (*Aristolochia siphon* L'Hérit.); Jour. Phys. Chim. Hist. Nat. 89:102. 1819, *descr.*; Isis von Oken 1920, 1: Lit. Anz. 240. 1820, *descr.*=*Aristolochia* Linn.
- siphon* Raf. ex Jacks*. Ind. Kew. 1:1240. 1893 (*Aristolochia siphon* L'Hérit.). North America=A. *durior* Hill.
- #MESTENIPHUS** Raf. Fl. Tellur. 4:97. 1836 [1838], *descr.*, subgen. *Aristolochia* Linn. (Type *Aristolochia grandiflora* Sw.).
- †NIPHUS** Raf. Loud. Gard. Mag. 8:247. 1832, *nom.* alt. *Siphidia* Raf., iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900=*Aristolochia* Linn.
- †PISTOLOCHIA** Raf. Med. Fl. 1:62. 1828, *descr.*, iter. Man. Med. Bot. 62. 1841, subgen. *Aristolochia* Linn.; Loud. Gard. Mag. 8:247. 1832, *nom.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900; Fl. Tellur. 4:98. 1836 [1838], *descr.*, ut gen., non Bernh. (1800)=*Aristolochia* Linn.
- angustifolia* Raf. Fl. Tellur. l.c., *nom.*
- latifolia* Raf. l.c., *nom.*
- serpentaria* Raf. l.c., *nom.* [*Aristolochia serpentaria* Linn.]. Eastern North America.
- PLAGISTRA** Raf. Fl. Tellur. 4:98. 1836 [1838], *descr.*=*Aristolochia* Linn.
- cretica* Raf. l.c., *nom.* (*Aristolochia cretica* Lam.). Crete.
- PSOPHIZA** Raf. Fl. Tellur. 4:99. 1836 [1838], *descr.*=*Aristolochia* Linn.
- undulata* Raf. l.c., *descr.* (*Aristolochia serpentaria* sensu Bigelow, Med. Bot. 3: t. 49. 1820). Florida=*Aristolochia serpentaria* Linn.
- PTERIPHIS** Raf. Fl. Tellur. 4:99. 1836 [1838], *descr.*=*Aristolochia* Linn.
- tripteris* Raf. l.c., *descr.* (*Aristolochia tripteris* Raf.) Louisiana.
- SIPHIDIA** Raf. Loud. Gard. Mag. 8:247. 1832, *nom.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900=*Aristolochia* Linn.

- SIPHISIA** Raf. Med. Fl. 1:62. 1828, *descr.*, iter. Man. Med. Bot. 62. 1841; Fl. Tellur. 4:99. 1836 [1838], *descr.*=*Aristolochia* Linn.
- glabra* Raf. Med. Fl. op. cit. 65, *nom. nov.* *Aristolochia siphon* L'Hérit.; Fl. Tellur. l.c. *nom.* (*Aristolochia siphon* L'Hérit.). Eastern North America=A. *durior* Hill.
- siphon* Raf. ex Jacks*. Ind. Kew. 2:915. 1895 (*Aristolochia siphon* L'Hérit.). Eastern North America=A. *durior* Hill.
- †tomentosa** Raf. Med. Fl. 1:65. 1828, *nom.* (*Aristolochia tomentosa* Sims), iter. Man. Med. Bot. 65. 1841; Fl. Tellur. 4:99. 1836 [1838], *nom.* (*Aristolochia tomentosa* Sims). Eastern North America.
- tripteris* Raf. ex Jacks*. Ind. Kew. 2:915. 1895 (*Aristolochia tripteris* Raf.). Louisiana.
- TROPEXA** Raf. Fl. Tellur. 4:98. 1836 [1838], *descr.*=*Aristolochia* Linn.
- biloba* Raf. l.c., *descr.* (*Aristolochia bilobata* Linn.). Santo Domingo.

POLYGONACEAE

- ACETOSA** Mill.=*Rumex* Linn.
- agrestis* Raf. New Fl. N. Am. 4:52. 1836 [1838], *nom.* alt. *Rumex agrestis* Raf. North America.
- amplexicaulis* Raf. op. cit. 53, *nom.* alt. *Rumex amplexicaulis* Raf. Eastern Europe.
- angustata* Raf. l.c., *nom.* alt. *Rumex angustatus* Raf. Sicily, Crete.
- bidentata* Raf. op. cit. 52, *nom.* alt. *Rumex bidentatus* Raf. Italy, Greece.
- bidentula* Raf. ex Jacks*. Ind. Kew. 1:21. 1893, *sphalm.*=*A. bidentata* Raf.
- *hastatula* Raf. New Fl. l.c., *nom.* alt. *Rumex hastatulus* Raf. Europe and Red River (Arkansas).
- hastulata* Raf. ex Jacks*. Ind. Kew. 1:21. 1893, *sphalm.*=*A. hastatula* Raf.
- heterophylla* Raf. New Fl. l.c., *nom.* alt. *Rumex heterophyllus* Raf. Appalachian Mountains of Virginia.
- integrifolia* Raf. l.c., *nom.* alt. *Rumex integrifolius* Raf. Kentucky.
- olitoria* Raf. op. cit. 53, *nom.* alt. *Rumex olitorius* Raf. North America.
- ANALITON** Raf. Fl. Tellur. 3:46. 1836 [1837], *descr.*=*Rumex* Linn.
- bipinnatus* Raf. ex Jacks*. Ind. Kew. 1:116. 1893 (*Rumex bipinnatus* Linn.). Morocco.
- ANTENORON** Raf. Fl. Ludovic. 28. 1817, *descr.*; Fl. Tellur. 3:12. 1836 [1837], *descr.*; New Fl. N. Am. 4:47. 1836 [1837], *nom.*=*Tovara* Adans. (1763)=*Polygonum* Linn.
- racemosum* Raf. Fl. Ludovic. et Fl. Tellur. ll.cc., *descr.* (*Atriplex renouée* Rob. Voy. Louis. 3:364. 1807). Louisiana=*Polygonum virginianum* Linn. (*Tovara virginiana* (Linn.) Raf.).
- #ATECOSA** Raf. Fl. Tellur. 3:46. 1836 [1837], *descr.*, subgen. *Rumex* Linn.
- #BELOTRACHYS** Raf. Fl. Tellur. 3:11. 1836 [1837], *descr.*, subgen. *Polygonum* Linn. (Type *Polygonum sagittatum* Linn.)=*Tracaulon* Raf. (1837)=*Polygonum* Linn.
- BISTORTA** Linn.=*Polygonum* Linn.
- americana* Raf. Fl. Tellur. 3:12. 1836 [1837], *nom.* North America.
- officinalis* Raf. l.c., *nom.* [*Polygonum bistorta* Linn.]. Boreal regions.
- CALACINUM** Raf. Fl. Tellur. 2:33. 1836 [1837], *descr.*=*Muehlenbeckia* Meissn. (1840), *nom. conserv.* (*Calacinum* Raf., 1837; *Karkinetron* Raf., 1837; *Sarcogonum* D. Don, 1839).
- adpressum* Raf. op. cit. 34, *descr.* (*Polygonum adpressum* Labill.; Hook. Bot. Mag. 59: t. 3145. 1832). Australia=*Muehlenbeckia adpressa* (Labill.) Meissn.
- australe* Raf. l.c., *descr.* (*Coccoloba australis* Forst. f.). New Zealand=*Muehlenbeckia australis* (Forst. f.) Meissn.
- *CETTIANA** Raf. Specch. Sci. 2:136. 1814, *descr.*; Anal. Nat. Tabl. Univ. 179. 1815, *nom.*=*Rumex* Linn.
- *lunaria* Raf. Specch. Sci. l.c., *descr.* (*Rumex lunaria* Linn.). Canary Islands; introd. in Sicily.
- CHULUSIUM** Raf. Ann. Nat. Ann. Synop. 12. 1820, *nom. nov.* provis. sub *Polygonum punctatum* Raf.; Fl. Tellur. 3:14. 1836 [1837], *descr.*; New Fl. N. Am. 4:47, 50. 1836 [1838], *nom.*=*Polygonum* Linn.
- acuminatum* Raf. Fl. Tellur. l.c., *descr.* (*Polygonum punctatum* Raf.). Western Kentucky.

CHULUSIUM (*continued*).

- amphibium** Raf. ex Jacks*. Ind. Kew. 1:532. 1893. (*Polygonum amphibium* Linn.). North temperate regions.
- filiforme** Raf. ex Jacks*. l.c. (*Polygonum filiforme* Barton). Pennsylvania=P. tenne Michx.
- fluitans** Raf. ex Jacks*. l.c. (*Polygonum fluitans* Eaton, Man. ed. 5, 338. 1829). Eastern North America=P. amphibium Linn., var. *stipulaceum* Colem., f. *fluitans* (Eaton) Fernald.
- natans** Raf. ex Jacks*. l.c. (*Polygonum natans* Eaton). Asia=praec.
- CNOPOS** Raf. Fl. Tellur. 3:13. 1836 [1837], *descr.*=*Polygonum* Linn.
- ramosissimum** Raf. l.c., *descr.* (*Polygonum ramosissimum* Michx.). Eastern North America.
- COCOLOBA** Raf. Fl. Tellur. 2:34. 1836 [1837], *descr.*=*Coccoloba* Linn.
- #DIACTUS** Raf. Fl. Ludovic. 30. 1817, *descr.*, subgen. *Polygonum* Linn., sub *Polygonum vernum* Raf.=*Polygonum* Linn.
- DIOCTIS** Raf. Fl. Tellur. 3:15. 1836 [1837], *descr.*; New Fl. N. Am. 4:50. 1836 [1838], *nom.*=*Polygonum* Linn.
- bicornis** Raf. Fl. Tellur. l.c., *nom.* [*Polygonum bicornis* Raf.]. Louisiana.
- equisetifolia** Raf. l.c., *nom.* [*Polygonum equisetiforme* Sibth. & Sm.]. Mediterranean region.
- maculata** Raf. l.c., *nom.* [*Polygonum maculatum* Raf.]. Louisiana.
- pensylvanica** Raf. l.c., *nom.* [*Polygonum pensylvanicum* Linn.]. North America.
- verna** Raf. l.c., *nom.* [*Polygonum vernum* Raf.]. Louisiana.
- #DIOCTUS** Raf. Fl. Ludovic. 30. 1817, *descr.* sub *Polygonum vernum* Raf., subgen. *Polygonum* Linn.=*Polygonum* Linn.
- DISCOLENTA** Raf. Fl. Tellur. 3:15. 1836 [1837], *descr.*; New Fl. N. Am. 4:49. 1836 [1838], *nom.*, *nota*=*Polygonum* Linn. (*Persicaria* Adans., 1763).
- lapathifolia** Raf. Fl. Tellur. l.c., *nom.* (*Polygonum lapathifolium* Linn.); New Fl. N. Am. 4:49. 1836 [1838], *nom.* Europe, North America. (*Persicaria lapathifolia* S. F. Gray).
- punctata** Raf. New Fl. N. Am. 4:49. 1836 [1838], *nom.*, *nota*, sub *Peutalis scabra* Raf. (*Polygonum punctatum* Ell.; *Discolenta scabra* Raf. Fl. Tellur. 3:15. 1836 [1837], *non* Raf. New Fl. N. Am. 4:48. 1836 [1838], *fide* Rafinesque). North America=*Polygonum punctatum* Ell. (*Persicaria punctata* Small).
- scabra** Raf. Fl. Tellur. 3:15, *nom.*, 16, *descr.*, 1836 [1837]. North America=*Discolenta punctata* Raf. *fide* Raf. New Fl. N. Am. 4:48. 1836 [1838]=*Polygonum punctatum* Ell. (*Persicaria punctata* Small).
- scabra** Raf. New Fl. N. Am. 4:48. 1836 [1838], *descr.*, *nom.* *alt.* *Peutalis scabra* Raf. Kentucky, Illinois=*Polygonum lapathifolium* Linn. (*Persicaria lapathifolia* S. F. Gray).
- ERIOGONUM** Michx.
- †dioicum** Raf. Herb. Raf. 38. 1833, *nom.*; New Fl. N. Am. 4:53. 1836 [1838], *descr.* Platte River.
- lateriflorum** Raf. New Fl. N. Am. 4:53. 1836 [1838], *descr.* Missouri, Arkansas.
- #EUTRALIA** Raf. Fl. Tellur. 3:46. 1836 [1837], *descr.*, subgen. *Rumex* Linn.=*Rumex* Linn.
- luxurians** Raf. ex Jacks*. Ind. Kew. 1:937. 1893 (*Rumex luxurians* Linn.). Europe or South Africa.
- FAGOPYRUM** Moench (1794), *nom. conserv.* (*Helxine* Linn., 1753, p.p., sect. *Polygonum* Linn.).
- cereale** Raf. Fl. Tellur. 3:10. 1836 [1837], *nom.* (*Polygonum fagopyrum* Linn.). Eurasia.
- chinense** Raf. l.c., *nom.* (*Polygonum chinense* Linn.). China.
- crassifolium** Raf. l.c., *nom.* (*Polygonum crassifolium* Murr.). Asia.
- perfoliatum** Raf. l.c., *nom.* (*Polygonum perfoliatum* Linn.). India.
- †GONONCUS** Raf. New Fl. N. Am. 1:17. 1836, *nom.*, *nota*; Fl. Tellur. 3:16. 1836 [1837], *descr.*=*Polygonum* Linn.
- undulatus** Raf. Fl. Tellur. op. cit. 17, *descr.* New Jersey, Pennsylvania, Delaware=*Polygonum* sp.
- HELXINE** Linn.=*Polygonum* Linn.
- arifolia** Raf. Fl. Tellur. 3:94. 1836 [1837], *descr.* (*Polygonum arifolium* Thunb., *non* Linn.). Japan=*Polygonum thunbergii* Sieb. & Zucc.
- cilinodis** Raf. op. cit. 10, *nom.* [*Polygonum cilinode* Michx.]. North America.

- convolvulus** Raf. l.c. *nom.* [*Polygonum convolvulus* Linn.]. North Temperate Zone.
- dumetorum** Raf. l.c., *nom.* [*Polygonum dumetorum* Linn.]. North Temperate Zone.
- multiflora** Raf. l.c., *nom.* [*Polygonum multiflorum* Thunb.]. Japan.
- sagittata** Raf. l.c., *nom.*, op. cit. 94, *descr.* (*Polygonum sagittatum* Linn.). Japan.
- scandens** Raf. l.c., *nom.* [*Polygonum scandens* Linn.]. Japan.
- HEPTARINA** Raf. Fl. Tellur. 3:15. 1836 [1837], *descr.*=*Polygonum* Linn.
- orientalis** Raf. l.c., *nom.* [*Polygonum orientale* Linn.]. Tropical Asia.
- HEPTARINIA** Raf. New Fl. N. Am. 4:48. 1836 [1838], *nom.*=praec.
- longifolia** Raf. l.c., *nom. alt.* *Peutalis longifolia* Raf. Pennsylvania.
- *orientalis** Raf. l.c., *nom.* [*Polygonum orientale* Linn.]. Tropical Asia.
- KARKINETRON** Raf. Fl. Tellur. 3:11. 1836 [1837], *descr.*=*Muehlenbeckia* Meissn. (1840), *nom. conserv.* (*Calacinum* Raf., 1837; *Karkinetron* Raf., 1837; *Sarcogonum* D. Don, 1839).
- hastatum** Raf. l.c., *descr.* (*Coccoloba sagittifolia* Ortega; *Polygonum acetosaefolium* Vent.). Brazil=*Muehlenbeckia sagittifolia* (Ortega) Meisn.
- undulatum** Raf. l.c., *descr.* (*Polygonum injucundum* Lindl. Bot. Reg. 15: t. 1250. 1829). Chile=*Muehlenbeckia chilensis* Meisn. var. *injucunda* (Lindl.) Meisn.
- KUNKALE** Raf. Fl. Tellur. 3:12. 1836 [1837], *descr.*=*Fagopyrum* Moench. (1794), *nom. conserv.* (*Helxine* Linn., p.p., 1753).
- carneum** Raf. l.c., *descr.* (*Polygonum emarginatum* Roth; Lindl. Bot. Reg. 23: t. 1065. 1827). India, China=*Fagopyrum esculentum* Moench.
- LAPATHON** Raf. New Fl. N. Am. 4:51. 1836 [1838], *nom.* [*Lapathum* Adans.]=*Rumex* Linn.
- sylvaticum** Raf. l.c., *descr.* (*Rumex sylvatica* Raf.). Western Kentucky.
- LYONELLA** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom. nov.* *Polygonella* Michx.; op. cit. 3:99. 1818, *nom.* (*Polygonella* Michx.); Jour. Phys. Chim. Hist. Nat. 89: 259. 1819, *nom.* sub *Lyonia* Nutt.; Ann. Nat. Ann. Synop. 12. 1820, *nom.* sub *Polygonum serotinum* Raf.=*Polygonella* Michx. (1803).
- LYONIA** Raf. Med. Repos. II. 5:353. 1808; Jour. Bot. (Paris) 2:172. 1809, *nom. nov.* *Polygonella* Michx.=*Polygonella* Michx. (1803).
- MENOPHYLA** Raf. Fl. Tellur. 3:45. 1836 [1837], *descr.*=*Rumex* Linn.
- lunaria** Raf. l.c., *nom.* (*Rumex lunaria* Linn.). Canary Islands.
- polygama** Raf. ex Jacks*. Ind. Kew. 2:207. 1894 (*Rumex polygamus* Cav. l.c. 1:14. t. 22. 1791). Canary Islands=*Rumex lunaria* Linn.
- MITESIA** Raf. Fl. Tellur. 3:15. 1836 [1837], *descr.*; New Fl. N. Am. 4:47. 50. 1836 [1838], *nom.*=*Polygonum* Linn. (*Persicaria* Adans., 1763).
- albiflora** Raf. Fl. Tellur. l.c., *nom.* Hab.?
- divergens** Raf. Fl. Tellur. 3:16. 1836 [1837], *descr.*; New Fl. N. Am. 4:48. 1836 [1838], *nom.* (*Peutalis divergens* Raf.). Kentucky.
- floridana** Raf. New Fl. N. Am. 4:47. 1836 [1838], *nom. alt.* *Peutalis floridana* Raf. Florida.
- hirsuta** Raf. Fl. Tellur. 3:15. 1836 [1837], *nom.*; New Fl. N. Am. 4:48. 1836 [1838], *descr.*, sub *Peutalis floridana* Raf. (*Polygonum hirsutum* Walt.). Southeastern United States (*Persicaria hirsuta* Small).
- ligularis** Raf. New Fl. N. Am. 4:47. 1836 [1838], *nom. alt.* *Peutalis ligularis* Raf. Carolina.
- montana** Raf. Fl. Tellur. 3:15. 1836 [1837], *nom.* Hab.?
- punctata** Raf. Fl. Tellur. 3:15. 1836 [1837], *nom.* (*Polygonum punctatum* Ell.). Southeastern United States (*Persicaria punctata* Small).
- NAUCOREPHES** Raf. Fl. Tellur. 2:34. 1836 [1837], *descr.*=*Coccoloba* Linn.
- pubescens** Raf. ex Jacks*. Ind. Kew. 2:298. 1894 (*Coccoloba pubescens* Linn.). Tropical America.
- punctata** Raf. ex Jacks*. l.c. (*Coccoloba punctata* Linn.). West Indies=*Coccoloba venosa* Linn.

- #**PATIENTIA** Raf. Fl. Tellur. 3:46. 1836 [1837], *descr.*, subgen. *Rumex* Linn.
- †**PEUTALIS** Raf. Herb. Raf. 52. 1833, *nom.*; Fl. Tellur. 3:14. 1836 [1837], *descr.*, *nom. nov.* *Persicaria* Adans.; New Fl. N. Am. 4:47, 50. 1836 [1838], *nom.*; Good Book 46. 1840, *nom.*=*Polygonum* Linn. (*Persicaria* Adans.).
- ***crassifolia** Raf. Herb. Raf. 52. 1833, *nom.* Rocky Mountains or Oregon.
- ***divaricata** Raf. l.c., *nom.* Rocky Mountains or Oregon.
- divergens** Raf. New Fl. N. Am. 4:48. 1836 [1838], *descr.* Kentucky.
- floridana** Raf. op. cit. 47, *descr.* Florida.
- glomerata** Raf. op. cit. 49, *descr.* Pennsylvania and Virginia.
- heterophylla** Raf. l.c., *descr.* Alleghany Mountains of Virginia.
- hydropiper** Raf. Fl. Tellur. 3:14. 1836 [1837], *nom.* [*Polygonum hydropiper* Linn.]. Europe, North America.
- incana** Raf. l.c., *nom.* [*Polygonum incanum* W. F. Schmidt]. Europe=*Polygonum lapathifolium* Linn.
- ligularis** Raf. New Fl. N. Am. 4:47. 1836 [1838], *descr.* Appalachian Mountains of Carolina, Iron Mountains.
- linearis** Raf. Fl. Tellur. 3:16. 1836 [1837], *descr.* Carolina to Florida.
- longifolia** Raf. New Fl. N. Am. 4:48. 1836 [1838], *descr.* Alleghany Mountains of Pennsylvania.
- minus** Raf. Fl. Tellur. 3:14. 1836 [1837], *nom.* [*Polygonum minus* Huds.]. Europe.
- nodosa** Raf. l.c., *nom.* [*Polygonum nodosum* Pers.]. Europe, North America=*Polygonum lapathifolium* Linn.
- palustris** Raf. New Fl. N. Am. 4:50. 1836 [1838], *descr.* Vermont to New Jersey.
- persicaria** Raf. Fl. Tellur. 3:14. 1836 [1837], *nom.* [*Polygonum persicaria* Linn.]. Europe, North America.
- polystachya** Raf. New Fl. N. Am. 4:50. 1836 [1838], *descr.* Pennsylvania to Kentucky.
- punctata** Raf. op. cit. 49, *nom. nov.* *Discolenta scabra* Raf.; Fl. Tellur. 3:16. 1836 [1837], *nom.* North America=*Polygonum punctatum* Ell. (*Persicaria punctata* Small).
- scabra** Raf. op. cit. 48, *descr.* Kentucky, Illinois=*Polygonum lapathifolium* Linn. (*Persicaria lapathifolia* S. F. Gray).
- ***PHYLLEPIDUM** Raf. New Fl. N. Am. 1:51. 1836, *nom.*=seq.
- PHYLLEPIDUM** Raf. Med. Repos. II. 5:356. 1808, *descr.*; Jour. Bot. (Paris) 1:218. 1809, *descr.*; Specch. Sci. 1:86. t. 4. 1814, *descr.*; Am. Monthly Mag. Crit. Rev. 2:173. 1818, *nom.*; Fl. Tellur. 3:41. 1836 [1837], *descr.*=*Delopyrum* Small (1913)=*Polygonella* Michx. (1803) fide Pennell in lit.
- squamosum** Raf. Fl. Tellur. 3:41. 1836 [1837], *descr.* Maryland=*Phyllepidum squarrosus* Raf.=*Polygonella articulata* (Linn.) Meisn. (*Delopyrum articulatum* Small).
- squarrosus** Raf. Med. Repos. l.c., *descr.*; Jour. Bot. (Paris), l.c.; Specch. Sci. 1:87. t. 4. 1814, *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* Maryland, near Baltimore=*Polygonella articulata* (Linn.) Meisn. (*Delopyrum articulatum* Small).
- PLEUROSTENA** Raf. Fl. Tellur. 3:12. 1836 [1837], *descr.*, New Fl. N. Am. 3:41. 1836 [1838], *descr.*; op. cit. 4:47. 1836 [1838], *nom.*=*Polygonum* Linn.
- serotina** Raf. Fl. Tellur. l.c., *descr.* (*Polygonum serotinum* Raf.); New Fl. op. cit. 42, *descr.* Kentucky. Ex *descr.*=*Polygonum aviculare* Linn.
- POGALIS** Raf. Fl. Tellur. 3:15. 1836 [1837], *descr.*=*Polygonum* Linn.
- barbata** Raf. l.c., *nom.* [*Polygonum barbatum* Linn.]. Tropical Asia.
- tinctoria** Raf. l.c., *nom.* [*Polygonum tinctorium* Ait.]. China.
- tomentosa** Raf. l.c., *nom.* [*Polygonum tomentosum* Willd.]. Tropical Asia.
- POLYGONUM** Linn.
- angustifolium** Raf. Fl. Tellur. 3:16. 1836 [1837], *descr.* New Jersey and Virginia, seashores.
- †**arenarium** Raf. Am. Monthly Mag. Crit. Rev. 2:120. 1817, *descr.*; Meisn. in DC. Prodr. 14:98. 1856, *nom.*, in syn. Long Island, New Jersey (Sandy Hook), seashores=*Polygonum aviculare* Linn. var. *diffusum* Meisn. fide Meisner. An *Polygonum glaucum* Nutt. (1818)?
- aviculare** Linn.; Raf. Med. Fl. 2:65. 1830, *descr.* var. *diffusum* Raf. l.c., *nom.*
- erectum** Raf. l.c., *nom.*
- gracile** Raf. l.c., *nom.*
- linearifolium** Raf. l.c., *nom.*
- parvifolium** Raf. l.c., *nom.*
- prostratum** Raf. l.c., *nom.*
- rubrum** Raf. l.c., *nom.*
- bicorne** Raf. Fl. Ludovic. 29. 1817, *descr.* (*Renouée* 1 Rob. Voy. Louis. 3:366. 1807). Louisiana.
- crassicaule** Raf. Fl. Tellur. 3:15. 1836 [1837], *descr.* Alleghany Mountains.
- dichotomum** Raf. Med. Repos. II. 5:354. 1808, *nom.*, Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- ***drenarium** Raf. Fl. Ludovic. 170. 1817, *nom.*, *sphalm.*=*P. arenarium* Raf.
- fastigiatum** Raf. Fl. Tellur. 3:15. 1836 [1837], *descr.* Alleghany Mountains.
- ***glaucum** Raf. Chloris Aetn. 4. 1815, *nom.* Sicily.
- ***hyssopifolium** Raf. Atl. Jour. 1:16. 1832, *descr.* Ohio.
- imbricatum** Raf. Fl. Tellur. 3:16. 1836 [1837], *descr.* Kentucky.
- inundatum** Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:225. 1809, *descr.* Delaware.
- maculatum** Raf. Fl. Ludovic. 29. 1817, *descr.* (*Renouée* 2 Rob. Voy. Louis. 3:367. 1807). Louisiana.
- nudiflorum** Raf. New Fl. N. Am. 4:51. 1836 [1838], *descr.* Alabama.
- ***pachistachyum** Raf. Fl. Ludovic. 29. 1817, *descr.* (*Renouée* 3 Rob. Voy. Louis. 3:367. 1807). Louisiana.
- pachystachyum** Raf. ex Jacks*. Ind. Kew. 2:599. 1894=*praec.*
- punctatum** Raf. Ann. Nat. Ann. Synop. 12. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- rubricaule** Raf. New Fl. N. Am. 4:51. 1836 [1838], *descr.* Pennsylvania.
- serotinum** Raf. Ann. Nat. Ann. Synop. 12. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 61. 1833, *nom.* Kentucky.=*Polygonella serotina* (Raf.) House (*Gonopyrum serotinum* House; *Polygonella americana* Small).
- setosum** Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- squamosum** Raf. Atl. Jour. 1:16. 1832, *descr.*; New Fl. N. Am. 4:50. 1836 [1838], *descr.* Western Kentucky.
- vernum** Raf. Fl. Ludovic. 30. 1817, *descr.* (*Renouée* 5 Rob. Voy. Louis. 3:367. 1807). Louisiana.
- RHODOPTERA** Raf. Fl. Tellur. 3:45. 1836 [1837], *descr.*=*Rumex* Linn.
- rosea** Raf. ex Jacks*. Ind. Kew. 2:712. 1895 (*Rumex roseus* Linn.). Mediterranean region.
- RUMEX** Linn.
- agrestis** Raf. New Fl. N. Am. 4:52. 1836 [1838], *descr.* Europe and America=*Rumex acetosa* Linn.
- angustatus** Raf. op. cit. 53, *descr.* Sicily and Crete.
- amplexicaulis** Raf. l.c., *descr.* Eastern Europe.
- ***bidentatus** Raf. op. cit. 52, *descr.* Italy, Greece.
- bidentulus** Raf. ex Jacks*. Ind. Kew. 2:764. 1895, *sphalm.*=*R. bidentatus* Raf.
- ***hastatulus** Raf. New Fl. N. Am. 4:52. 1836 [1838], *descr.* Europe, and Red River [of Arkansas-Louisiana].
- hastulatus** Raf. ex Jacks*. Ind. Kew. 2:765. 1895=*R. hastatulus* Raf.
- heterophyllus** Raf. New Fl. l.c., *descr.* Appalachian Mountains of Virginia.
- integrifolius** Raf. l.c., *descr.* Kentucky.
- ludovicianus** Raf. Fl. Ludovic. 30. 1817, *descr.* (*Patience* Rob. Voy. Louis. 3:368. 1807). Louisiana.
- olitorius** Raf. New Fl. N. Am. 4:53. 1836 [1837], *descr.* North America.
- shultzii** Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- spurius** Raf. l.c., *nom.* Central Atlantic United States.
- sylvaticus** Raf. Ann. Nat. Ann. Synop. 12. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824 *nom.*; Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 4:51. 1836 [1838], *nom.* in syn. Kentucky.
- ***SOVARA** Raf. Fl. Tellur. 3:45. 1836 [1837], *nom.*, *sphalm.*=*Tovara* Adans. (1763)=*Polygonum* Linn.
- SPERMAULAXEN** Raf. Fl. Tellur. 3:13. 1836 [1837], *descr.*; New Fl. N. Am. 3:41. 1836 [1838], *nom.*=*Polygonum* Linn.
- dichotomus** Raf. Fl. Tellur. op. cit. 14, *descr.*; New Fl. N. Am. 3:42. 1836 [1838], *descr.* Florida.
- STOPINACA** Raf. Fl. Tellur. 3:11. 1836 [1837], *descr.*, *nom. nov.* *Polygonella* Michx. (1803); New Fl. N. Am. 4:47. 1836 [1838], *nom.*=*Polygonella* Michx. (1803).

- STOPINACA** (*continued*).
parvifolia Raf. Fl. Tellur. 1.c., *nom.* (*Polygonella parvifolia* Michx.). Southeastern United States=*Polygonella polygama* (Vent.) A. Gray.
SUNANIA Raf. Fl. Tellur. 3:95. 1836 [1837], *descr.*=*Tovara* Adans. (1763)=*Polygonum* Linn.
filiformis Raf. 1.c., *descr.* (*Polygonum filiforme* Thunb.). Japan=*Polygonum virginianum* Linn. var. *filiforme* (Thunb.) Nakai.
#TASOBA Raf. Fl. Tellur. 3:94. 1836 [1837], *descr.*, subgen. *Helixine* Linn.=*Polygonum* Linn. (*Tracaulon* Raf., 1837).
arifolia Raf. ex Jacks*. Ind. Kew. 2:1038. 1895 (*Polygonum arifolium* Thunb.). Japan=*Polygonum thunbergii* Sieb. & Zucc.
sagittata Raf. ex Jacks*. 1.c. (*Polygonum sagittatum* sensu Thunb.). Japan=*Polygonum sagittatum* Linn.
TEPHIS Adans.; sensu Raf. Fl. Tellur. 3:11. 1836 [1837], *descr.* (*Asicaria* Neck.; *Pedaliium* Adans., non Linn.)=*Atraphaxis* Linn.
frutescens Raf. 1.c., *nom.* [*Polygonum frutescens* Linn.]=*Atraphaxis frutescens* (Linn.) K. Koch. Siberia.
parvifolia Raf. 1.c., *nom.* [*Polygonum parvifolium* Nutt.]=*Polygonella polygama* (Vent.) A. Gray. Eastern North America.
#TOMARIS Raf. Fl. Tellur. 3:46. 1836 [1837], *descr.*, subgen. *Rumex* Linn.
TOVARA Adans.; Raf. Fl. Tellur. 3:12. 1836 [1837], *descr.*=*Polygonum* Linn.
virginiana Raf. 1.c., *nom.* (*Polygonum virginianum* Linn.). Eastern North America.
TRACAULON Raf. Fl. Tellur. 3:13. 1836 [1837], *descr.*; New Fl. N. Am. 4:47. 1836 [1838], *nom.*=*Polygonum* Linn.
arifolium Raf. 1.c., *descr.* [*Polygonum arifolium* Linn.]. Eastern North America, Asia.
VIBONES Raf. Fl. Tellur. 3:45. 1836 [1837], *descr.*=*Rumex* Linn.
auratus Raf. 1.c., *descr.* Alps of Switzerland.

CHENOPODIACEAE

- ATRIPLEX** Linn.
**cuneata* Raf. Herb. Raf. 38. 1833, *nom.* Upper Missouri (Mandan country)=Dakota.
†*dioica* Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *descr.*; op. cit. 176. 1818, *nom.*, *nota*; Fl. Ludovic. 170. 1817, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.*, *nota* (*Atriplex hastata* sensu Michx.). Long Island, New Jersey=*Atriplex hastata* Linn.
halimoides Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.* (*A. halimus* sensu Pursh [Gronovius], non Linn.); Med. Fl. 2:198. 1830, *nom.* Virginia=*Atriplex hastata* Linn.
**monoica* Raf. Specch. Sci. 2:171. 1814, *descr.* Sicily=*Atriplex monoica* Moench (1802)=*A. rosea* Linn.
**mucronata* Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *descr.* (*Atriplex patula* auct. Am.); op. cit. 176. 1818, *nom.* (*Atriplex laciniata* sensu Pursh); Fl. Ludovic. 170. 1817, *nom.*, *sphalm.* "macronata"; Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.*, *nota*. (*Atriplex patula* sensu Michx.; *A. arenaria* Nutt.). Long Island, New Jersey=*Atriplex hastata* Linn.
torreyana Raf. Atl. Jour. 1:146. 1832, *nom.* (*Atriplex* s.n. Torr. Ann. Lyc. Nat. Hist. N. Y. 2:240. 1827, *descr.*), Platte River.
BELOTROPIS Raf. Am. Monthly Mag. Crit. Rev. 1:543. 1817, *nom.* Long Island, New York, Ex *nom.* "sea grapes"=*Salicornia* Linn.
CAKILE Linn.
**longifolia* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or New Mexico.
**riparia* Raf. op. cit. 63, *nom.* Kentucky or Illinois.
CHENOPODIUM Linn.
**bonus* Raf. Med. Fl. 2:208. 1830, *nom.* [*Chenopodium bonus-henricus* Linn.]. Europe.
botryoides Raf. ex Moq. in DC. Prodr. 13(2):75. 1849, *nom.*, in syn.=*C. botrys* Linn.
var. *gracile* Raf. ex Moq. 1.c., *nom.* in syn.
nigrum Raf. Atl. Jour. 1:146. 1832, *nom.* (*Chenopodium maritimum* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:239. 1827, non Linn.). Canadian River (New Mexico or Oklahoma)=*Suaeda nigra* (Raf.) Macbr. (*S. diffusa* S. Wats., 1874; *Dondia nigra* Standl., 1918).
**rugosum* Raf. Med. Fl. 2:208. 1830, *nom.*, *nota* [*Chenopodium anthelminthicum* sensu Ell.]. Southeastern and middle western United States=*Chenopodium ambrosioides* Linn.
simplex Raf. Atl. Jour. 1:146. 1832, *nom.* (*Chenopodium hybridum* var. ? *simplex* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:237. 1827). Missouri River.
CORISPERMUM Linn.
pilosum Raf. New Fl. N. Am. 4:46. 1836 [1838], *descr.* Florida.
***CRITESIA** Raf. Am. Monthly Mag. Crit. Rev. 1:453. 1817, *nom.* Long Island. Ex *nom.* "sea-grapes"=*Salsola* Linn.
***DIPLOCEA** Raf. Am. Monthly Mag. Crit. Rev. 1:453. 1817, *nom.*, *nota*, non Raf. (1818). Long Island. Ex *nom.* "sea grapes"=*Salsola* Linn.
EINADIA Raf. Fl. Tellur. 4:121. 1836 [1838], *descr.*=*Rhagodia* R. Br. (1810).
linifolia Raf. 1.c., *descr.* (*Rhagodia linifolia* R. Br.). Australia.
ISGARUM Raf. Fl. Tellur. 3:46. 1836 [1837], *descr.*=? *Salsola* Linn.
didymum Raf. 1.c., *descr.* (*Salsola didyma* Lour.). East Africa. Gen. incert.; see Merrill, Trans. Am. Philos. Soc. II. 24(2): 402. 1935.
KRANIKOFA Raf. Princ. Somiol. 30. 1814, *nom. nov.* *Krascheninnikovia* Gueldenst. (1772)=*Eurotia* Adans. (1763).
***KRANIKOVIA** Raf. Fl. Tellur. 1:86. 1836 [1837], *nom. nov.* *Krascheninnikovia* Gueldenst.=*praec.*
***KRASCHENIKOFIA** Raf. Fl. Tellur. 1:92. 1836 [1837], *nom.*=*praec.*
***KRASCHENNIKOFIA** Raf. Fl. Tellur. 1:86. 1836 [1837] *nom.*=*Krascheninnikovia* Gueldenst.=*praec.*
***KRASCHENNIKOFIA** Raf. Princ. Somiol. 30. 1814, *nom.*=*Krascheninnikovia* Gueldenst. (1772)=*praec.*
***KRASNIKOVIA** Raf. Fl. Tellur. 1:92. 1836 [1837], *nom. nov.* *Krascheninnikovia* Gueldenst. (1772)=*praec.*
OFAISTON Raf. Fl. Tellur. 3:46. 1836 [1837], *descr.* *paucifolium* Raf. 1.c., *descr.* (*Salsola monandra* Pallas). Caspian region=*Ofaiston monandrum* (Pallas) Moq.
SALICORNIA Linn.
**marginata* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
SALSOLA Linn.
**foliosa* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
SARCATHRIA Raf. Fl. Tellur. 3:47. 1836 [1837], *descr.*=*Salicornia* Linn.
ambigua Raf. 1.c., *nom.* (*Salicornia ambigua* Michx.). Eastern North America=*Salicornia perennis* Mill.
indica Raf. 1.c., *nom.* (*Salicornia indica* Willd.). India=*Arthrocnemum indicum* (Willd.) Moq.
procumbens Raf. 1.c., *nom.* (*Salicornia procumbens* Sm.) Europe=*Salicornia europea* Linn.
radicans Raf. 1.c., *nom.* (*Salicornia radicans* Sm.). Europe=*Salicornia perennis* Mill.
strobilacea Raf. 1.c., *nom.* (*Salicornia strobilacea* Delile). Egypt=*Haloepelis perfoliata* (Forsk.) Bunge.
virginica Raf. 1.c., *nom.* (*Salicornia virginica* Linn.). Virginia=*Salicornia europea* Linn.
TRIKALIS Raf. Fl. Tellur. 3:47. 1836 [1837], *descr.*=*Suaeda* Forsk. (1775), *nom. conserv.* (*Dondia* Adans., 1763; *Lerchea* Ruell., 1774).
triflora Raf. 1.c., *nom.*, *nota* [*Salsola trigyna* Willd.]. Eurasia=*Suaeda altissima* Pallas.

AMARANTHACEAE

- ACNIDA** Linn.
elliotti Raf. New Fl. N. Am. 1:54. 1836, *descr.* (*Acnida cannabina* sensu Ell.). Carolina to Florida=*Acnida cannabina* Linn.
†*obtusifolia* Raf. Herb. Raf. 69. 1833, *nom.*; New Fl. N. Am. 1.c., *descr.* (*Acnida cannabina* sensu Michx.). Long Island, New Jersey, Chesapeake Bay=*Acnida cannabina* Linn.
var. *procera* Raf. New Fl. N. Am. 1.c., *descr.*
pumila Raf. 1.c., *descr.*
retusa Raf. 1.c., *descr.*
salicifolia Raf. Am. Monthly Mag. Crit. Rev. 2:43. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.*; Herb. Raf. 69. 1833, *nom.*; New Fl. N. Am. 1:54. 1836, *descr.* Long Island, New Jersey, Chesapeake Bay, Ohio=*Acnida cannabina* Linn.

- ***ADOCETON** Raf. Am. Monthly Mag. Crit. Rev. 1:438. 1817, *descr.* = Adoketon Raf. = *Alternanthera* Forsk. (1775).
 ***maritimum** Raf. l.c., *descr.* Sicily.
 ***saxatile** Raf. l.c., *descr.*; Fl. Ludovic. 168. 1817, *nom.* Sicily.
- †**ADOKETON** Raf. New Fl. N. Am. 1:51, *nom.*, 65, *descr.*, 1836; op. cit. 4:46. 1836 [1838], *nom.*; Good Book 44. 1840, *nom.* = Adoceton Raf. (1817) = *Alternanthera* Forsk. (1775).
maritimum Raf. ex Durand et Jacks*. Ind. Kew. Suppl. 1:467. 1902.
saxatile Raf. New Fl. N. Am. 1:65. 1836, *descr.*; op. cit. 4:46. 1836 [1838], *nom.* (*Illecebrum alsinefolium* Scop.). Sicily, Spain.
uniflorum Raf. l.c., *descr.* Unaka Mountains, North Carolina.
- AERUA** Juss. (1789) = *Aerva* Forsk. (1775), *nom. conserv.* (*Ouret* Adans., 1763).
tomentosa Raf. Fl. Tellur. 3:42. 1836 [1837], *nom.* (*Celosia lanata* Linn.). India = *Aerva lanata* (Linn.) Juss.
- AMARANTHUS** Linn.
diacanthus Raf. Fl. Ludovic. 31. 1817, *descr.* (*Arrache ou epinard du tropique* Rob. Voy. Louis. 3:372. 1807); Med. Fl. 2:190. 1830, *nom.* Louisiana = *Amaranthus spinosus* Linn.
leucanthus Raf. Fl. Ludovic. 32. 1817, *descr.* (*Amaranthus albus* Rob. op. cit. 374). Louisiana = *A. graecizans* Linn.
pumilus Raf. Med. Repos. II. 5:360. 1808, *descr.* (*pumilis*); Jour. Bot. (Paris) 1:228. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom.*, *nota*; Med. Fl. 2:190. 1830, *nom.*; Herb. Raf. 69. 1833, *nom.*; Life of Travels 15. 1838, *nom.* Long Island, New Jersey, Chesapeake Bay.
- AMBLOGYNA** Raf. Fl. Tellur. 3:42. 1836 [1837], *descr.* = *Amaranthus* Linn.
polygonoides Raf. l.c., *nom.* (*Amaranthus polygonoides* Linn.) Southeastern United States to South America.
- BELUTTA** Raf. Fl. Tellur. 3:39. 1836 [1837], *descr.* = *Allmania* R. Br. 1832, *nom.*; Wight, Hook. Jour. Bot. 1:226. 1834, *descr.*; Endl. Gen. 304. 1837, *nom.*
peduncularis Raf. l.c., *descr.* (*Celosia nodiflora* Linn.). Sumatra = *Allmania nodiflora* (Linn.) R. Br.
sessilis Raf. l.c., *descr.* (*Celosia nodiflora* Linn.; *Amaranthus humilis foliis oppositis* Burm. Thes. Zeyl. 17. t. 5. f. 2. 1737). Ceylon, India = *Allmania nodiflora* (Linn.) R. Br.
- BLUTAPARON** Raf. New Fl. N. Am. 4:45. 1836 [1838], *descr.* = *Philoxerus* R. Br. (1810).
breviflorum Raf. l.c., *descr.* (*Illecebrum vermiculatum* sensu Michx.); Aut. Bot. 16. 151. 1840, *nom.* Florida = *Philoxerus vermicularis* (Linn.) Beauv. Fl. Oware Benin 2:65. 1818.
repens Raf. op. cit. 46, *descr.* (*Illecebrum vermiculatum* Linn.). Guiana, Brazil = *Philoxerus vermicularis* (Linn.) Beauv.
- ***BOZEA** Raf. Med. Repos. III. 2:345. 1811, *nom.*, *sphalm.* = *Bosea* Linn.
 ***yervamora** Raf. l.c., *nom.* = *Bosea yervamora* Linn.
- CADELARIA** Raf. Fl. Tellur. 3:39. 1836 [1837], *descr.* (*Cadelari* Adans.) = *Centrostachys* Wall. (1824) = *Achyranthes* Linn.
 ***argentea** Raf. Aut. Bot. 154. 1840, *descr.* (*Achyranthes argentea* Lam.). South Africa = *A. aspera* Linn.
indica Raf. Fl. Tellur. 3:39. 1836 [1837], *descr.* Indo-Malaysia = *Achyranthes indica* Mill. (*Centrostachys indica* Standl.)
- punctata** Raf. l.c., *descr.* (*Achyranthes paniculata* Forsk.). Arabia = *Celosia caudata* Vahl.
sicula Raf. l.c., *descr.* (*Amaranthus spicatus perennis* Bocc. l.c. *Descr. Pl. Sicil.* 16. f. 9. 1674); Aut. Bot. 153. 1840, *descr.* Sicily, North Africa = *Achyranthes sicula* Roth = *A. aspera* Linn.
- CARAXERON** Vaill.; Raf. Fl. Tellur. 3:38. 1836 [1837], *descr.* = *Iresine* P. Browne (1756), *nom. conserv.* (*Cruzeta* Loeffl., 1758).
brasiliensis Raf. l.c., *nom.* (*Gomphrena vermicularis* Linn.). Brazil = *Philoxerus vermicularis* (Linn.) Beauv.
conicus Raf. l.c., *nom.* (*Philoxerus conicus* R. Br.). Australia = *Gomphrena conica* Spreng. = *Iresine conica* (R. Br.) Moq.
diffusus Raf. l.c., *nom.* (*Philoxerus diffusus* R. Br.). Australia = *Gomphrena diffusa* Spreng. = *Iresine brownii* Moq.
vermicularis Raf. l.c., *nom.* (*Gomphrena vermicularis* Linn.). Tropical America = *Philoxerus vermicularis* (Linn.) Beauv.
- CELOSIA** Linn.
 ***cordata** Raf. Aut. Bot. 151. 1840, *descr.* India.
 ***flexuosa** Raf. l.c., *descr.* Asia.
 ***pumila** Raf. l.c., *descr.* Florida.
 ***rosea** Raf. op. cit. 152, *descr.* Ceylon.
- CODIVALIA** Raf. Fl. Tellur. 3:40. 1836 [1837], *descr.* (*Pupal* Adans.) = *Pupalia* Juss. (1803), *nom. conserv.* (*Pupal* Adans., 1763; *Cadelari* Medic. 1787; *Syama* Jones, 1795).
lappacea Raf. ex Jacks*. Ind. Kew. 1:577. 1893 (*Achyranthes lappacea* Linn.). India = *Pupalia lappacea* (Linn.) Juss.
patula Raf. ex Jacks*. l.c. (*Achyranthes patula* Linn. f.). India = *Pupalia lappacea* (Linn.) Juss.
- COLOSPERMA** Raf. Fl. Tellur. 3:43. 1836 [1837], *descr.* = *Deeringia* R. Br. (1810).
cordata Raf. l.c., *descr.* (*Celosia baccata* Retz.). India = *Deeringia amaranthoides* (Lam.) Merr. (*D. baccata* Moq.; *D. celosioides* R. Br.).
- DIMEIANDRA** Raf. Neogen. 2. 1825, *descr.* = *Amaranthus* Linn.
- DIMEIANTHUS** Raf. Fl. Tellur. 3:41. 1836 [1837], *descr.* (*Bliton* Adans.) = *Amaranthus* Linn.
 ***graecizans** Raf. ex Moq. in DC. Prodr. 13(2):264. 1864, *nom.* in syn. = *Amaranthus graecizans* Linn.
- ECLOTORIPA** Raf. Fl. Tellur. 3:40. 1836 [1837], *descr.* = *Digera* Forsk. (1775).
annua Raf. l.c., *descr.* [*Achyranthes muricata* Linn.]. Arabia, Moluccas = *Digera muricata* (Linn.) Mart.
fruticosa Raf. l.c., *descr.* Egypt [*Achyranthes muricata* Linn.] = *Digera muricata* (Linn.) Mart.
- EUXOLUS** Raf. Fl. Tellur. 3:42. 1836 [1837], *descr.* = *Amaranthus* Linn.
deflexus Raf. l.c., *nom.* (*Amaranthus deflexus* Linn.). Europe.
- EVERION** Raf. Sylva Tellur. 124. 1838, *descr.* = *Froelichia* Moench (1794).
interrupta Raf. l.c., *descr.* (*Gomphrena interrupta* Linn.; *Celosia procumbens* Jacq.). West Indies = *Froelichia interrupta* (Linn.) Moq.
- GOMPHRENA** Linn.
 ***ciliata** Raf. Aut. Bot. 152. 1840, *descr.* (*Gomphrena globosa* auct.). East Indies = *Gomphrena globosa* Linn.
 ***lanceolata** Raf. l.c., *descr.* Brazil.
- GONUFAS** Raf. Sylva Tellur. 124. 1838, *descr.* = *Celosia* Linn.
paniculata Raf. l.c., *descr.* (*Celosia paniculata* auct., non Linn.). West Indies = *Celosia nitida* Vahl.
- HYPARETE** Raf. Fl. Tellur. 3:43. 1836 [1837], *descr.* = *Hermbstaedtia* Reichb. (1828).
glauca Raf. op. cit., *descr.* (*Celosia glauca* Wendl.). South Africa = *Hermbstaedtia glauca* (Wendl.) Reichb.
- LEPIPHAIA** Raf. Aut. Bot. 199. 1840, *nom. nov.* *Nevrolis* Raf.; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.* = *Celosia* Linn.
- LOPHOXERA** Raf. Fl. Tellur. 3:42. 1836 [1837], *descr.* = *Celosia* Linn.
caudata Raf. l.c., *nom.* (*Celosia caudata* Vahl). Arabia.
comosa Raf. l.c., *nom.* (*Celosia comosa* Retz.). Pantropic = *Celosia cristata* Linn.
paniculata Raf. l.c., *nom.* (*Celosia paniculata* Linn.). West Indies = *Celosia nitida* Vahl.
polygonoides Raf. l.c., *nom.* (*Celosia polygonoides* Retz.). India.
racemosa Raf. l.c., *nom.* (*Celosia trigyna* Linn.). Tropical Africa.
- ***NEVROLA** Raf. Aut. Bot. 150. 1840, *nom. sub Nevrolis* Raf. = seq.
- NEVROLIS** Raf. Aut. Bot. 150. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.* = *Celosia* Linn.
fuscata Raf. l.c., *descr.* (*Celosia virgata* hort.); Pennell, l.c., *nom.* "Borneo or Moluccas?" [South America] = *Celosia virgata* Jacq.
- NINANGA** Raf. Fl. Tellur. 3:76. 1836 [1837], *descr.* = *Froelichia* Moench. (1794).
bicolor Raf. op. cit. 77, *nom.* (*Gomphrena perennis* Linn.; Sims, Bot. Mag. 53: t. 2614. 1826). Argentina.
interrupta Raf. l.c., *nom.* (*Gomphrena interrupta* Linn.; *Celosia procumbens* Jacq.). Mexico = *Froelichia interrupta* (Linn.) Moq.
- ***OPLOTECA** Raf. New Fl. N. Am. 4:46. 1836 [1838], *nom.* = *Oplotecha* Nutt. (1818) = *Froelichia* Moench (1794).
- PENTRIUS** Raf. Fl. Tellur. 3:42. 1836 [1837], *nom.*, *nota*, *sub Dimeianthus* Raf. (Type *Amaranthus oleraceus* Linn.) = *Amaranthus* Linn.

PENTRIUS (continued).

- oleraceus* Raf. ex Jacks*. Ind. Kew. 2:462. 1894 (*Amaranthus oleraceus* Linn.). Asia.
- †**STEIREMIS** Raf. New Fl. N. Am. 1:51. 1836, nom.; Fl. Tellur. 3:40. 1836 [1837], descr.; New Fl. N. Am. 4:45. 1836 [1838], nom. (*Stereimis*); Aut. Bot. 154. 1840, nom. (*Stereimis*)=Alternanthera Forsk. (1775).
- ciliata* Raf. New Fl. N. Am. 4:45. 1836 [1838], descr.; Aut. Bot. 154. 1840, nom. (*Illecebrum polygonoides* auct.). Georgia, Florida, Louisiana=Alternanthera polygonoides (Linn.) R. Br.
- ficoidea* Raf. Fl. Tellur. 3:41. 1836 [1838], descr. (*Stereimis ficoidea* Raf.; *Illecebrum ficoideum* auct.; *Achyranthes ficoidea* auct.). Carolina, Florida, West Indies=Alternanthera ficoidea (L.) R. Br.
- **globosa* Raf. l.c., descr., nom. nov. provis. *S. repens* Raf. West Indies=Alternanthera achyrantha (Linn.) R. Br.
- **heterophylla* Raf. Aut. Bot. 154. 1840, descr. (*Achyranthes axillaris* sensu Sieber). Egypt=Alternanthera sp.
- repens* Raf. Fl. Tellur. 3:41. 1836 [1837], descr. (*Achyranthes repens* Linn.; *Gomphrena polygonoides* auct.; *Illecebrum polygonoides* auct.). Carolina, Georgia, West Indies=Alternanthera achyrantha (Linn.) R. Br.
- sessilifolia* Raf. l.c., descr.; New Fl. N. Am. 4:45. 1836 [1838], nom. Spain, Africa=Alternanthera sp.
- ***STEREIMIS** Raf. Med. Fl. 2:266. 1830, nom., nota=Steiremis Raf. (1837)=Alternanthera Forsk. (1775).
- **ficoidea* Raf. l.c., nom. [*Illecebrum ficoideum* auct.; *Achyranthes ficoidea* auct.]. Carolina, Florida, West Indies=Alternanthera ficoidea (Linn.) R. Br.
- **repens* Raf. l.c., nom. [*Achyranthes repens* Linn.]. Southeastern United States=Alternanthera achyrantha (Linn.) R. Br.
- **vermicularis* Raf. l.c. (sphalm. "vermicularie"), nom. (*Achyranthes *vermicularis* Ell. Sketch 1:310. 1817). Southeastern United States=Phloxeris vermicularis (Linn.) Beauv.
- URETIA** Raf. Fl. Tellur. 3:40. 1836 [1837], descr., nom. nov. Ouret Adans. (1763)=Aerva Forsk. (1775), nom. conserv. (Ouret Adans., 1763).
- alternifolia* Raf. ex Jacks*. Ind. Kew. 2:1150. 1895 (*Achyranthes alternifolia* Linn.)=Digera alternifolia (Linn.) Aschers. (*D. arvensis* Forsk.).
- WADAPUS** Raf. Fl. Tellur. 3:77. 1836 [1837], nom. (Type, *Gomphrena arborescens* Linn. f.). Brazil=Gomphrena Linn.
- †**XERANDRA** Raf. New Fl. N. Am. 1:46, 51. 1836, nom.; Fl. Tellur. 3:43. 1836 [1837], descr.=Iresine P. Browne (1756), nom. conserv. (*Cruzeta* Loeffl., 1758).
- celosioides* Raf. Fl. Tellur. l.c., nom. (*Iresine celosioides* Linn.). Southeastern United States=Iresine celosia Linn. Indies=Iresine angustifolia Euphr.
- elator* Raf. l.c., nom. (*Iresine elatior* L. C. Rich.). West Indies=Iresine angustifolia Euphr.

NYCTAGINACEAE

- ***ALIONIA** Raf. Fl. Tellur. 1:54. 1836 [1837], nom.=Allionia Loeffl. (1758).
- ***AXIANA** Raf. Ann. Gén. Sci. Phys. 6:88. 1820, nom. nov. *Axia* Lour.=Boerhavia Linn.; see Merrill, Trans. Am. Philos. Soc. II. 24(2): 150. 1935.
- BOERHAVIA** Linn.
- **atomaria* Raf. Aut. Bot. 40. 1840, descr. (*B. erecta* Linn.). Florida=Boerhavia erecta Linn.
- **squamata* Raf. l.c., descr. (*B. diffusa* herb. Baldw., non Linn.). Florida=B. caribea Jacq.
- CALYMENIA** Pers.=Oxybaphus L'Hérit. (1797)=Allionia Loeffl.
- **granulata* Aut. Bot. 15. 1840, descr. Alabama, Florida=Allionia alba Walt.
- NEEANIA** Raf. Princ. Somiol. 30. 1814, nom. nov. *Neea* Ruiz & Pavon; Fl. Tellur. 1:86. 1836 [1837], nom. (*Neea* Ruiz & Pavon).
- #**PLETERINA** Raf. Aut. Bot. 41. 1840, descr., subgen. *Boerhavia* Linn. (Type *Boerhavia arborescens* Lag. & Rodr.)=Pisonia Linn.
- #**SALIUNCA** Raf. Aut. Bot. 40. 1840, descr., subgen. *Boerhavia* Linn. (Type *Boerhavia scandens* Linn.).
- #**TALUDAMA** Raf. Aut. Bot. 40. 1840, descr. subgen. *Boerhavia* Linn. (Type *Boerhavia diffusa* Linn.).

- TRIMISTA** Raf. Aut. Bot. 12. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:92. 1921, nom.=Mirabilis Linn.
- levigata* Raf. l.c., descr. (*Nyctago jalapae* DC.); Pennell, l.c., nom. Tropical America=Mirabilis jalapa Linn.

PHYTOLACCACEAE

- MANCOA** Raf. Fl. Tellur. 3:56. 1836 [1837], descr.=Hilleria Voll. (1825) (*Mohlana* Mart., 1829).
- secunda* Raf. l.c., descr. (*Rivina secunda* Ruiz & Pavon, Fl. Peruv. 1:65. t. 102. 1798). Peru=Hilleria secunda (Ruiz & Pavon) H. Walt.
- PIERCEA** Mill.=Rivina Linn.
- acuminata* Raf. New Fl. N. Am. 4:13. 1836 [1838], nom. alt. *Rivina acuminata* Raf. Florida to Arkansas=Rivina humilis Linn.
- **humilis* Raf. l.c., in obs. nom. alt. *Rivina humilis* Linn. Tropical America.
- **levis* Raf. op. cit. 14, nom. alt. *Rivina laevis* Linn. Tropical America=Rivina humilis Linn., var. glabra Linn.
- obliquata* Raf. op. cit. 13, 107, nom. alt. *Rivina obliquata* Raf. North America=Rivina humilis Linn.
- RIVINA** Linn.
- acuminata* Raf. New Fl. N. Am. 4:13. 1836 [1838], descr. (*Rivina laevis* sensu Muhl., Nutt.). Florida to Arkansas=Rivina humilis Linn.
- **americana* Raf. Fl. Tellur. 3:56. 1836 [1837], nom. nov. *R. octandra* Linn. (*R. dodecandra* Jacq.). Tropical America=Trichostigma octandrum (Linn.) H. Walt.
- **levis* Raf. l.c., nom.=R. laevis Linn.
- **mollis* Raf. op. cit. 107, nom. Mexico.
- obliquata* Raf. op. cit. 13, descr., 107, nota. Florida. (*R. humilis* auct.)=Rivina humilis Linn.
- SARCOCA** Raf. Fl. Tellur. 3:55. 1836 [1837], descr.=Phytolacca Linn.
- abyssinica* Raf. ex Jacks*. Ind. Kew. 2:803. 1895 (*Phytolacca abyssinica* Hoffm.). Africa=Phytolacca dodecandra L'Hérit.
- dioica* Raf. ex Jacks*. l.c. (*Phytolacca dioica* Linn.). South America.
- icosandra* Raf. ex Jacks*. l.c. (*Phytolacca icosandra* Linn.). Tropical America.

AIZOACEAE

- LAMPETIA** Raf. Fl. Tellur. 3:34. 1836 [1837], descr.=Mollugo Linn.
- nudicaulis* Raf. l.c., descr. (*Mollugo nudicaulis* Lam.; *Alsine foliis ad radicem positus* Burm. Thes. Zeyl. 14. t. 8. 1737). Ceylon, Africa=Mollugo nudicaulis Lam.
- MEIAPINON** Raf. Fl. Tellur. 3:32. 1836 [1837], descr.=? Mollugo Linn.
- saginoidea* Raf. op. cit. 33, descr. Florida.
- ***MESEMBRYANTHUS** Raf. Fl. Tellur. 1:92. 1836 [1837], nom. nov. Mesembryanthemum Linn.
- MESEMBRYANTHUS** Neck.; Raf. Princ. Somiol. 30. 1814, nom.; Anal. Nat. Tabl. Univ. 195. 1815, nom.; Chloris Aetn. 6. 1815, nom.=Mesembryanthemum Linn.
- **cristallinus* Raf. Chloris Aetn. 6. 1815, nom. (*Mesembryanthemum crystallinum* Linn.). Mediterranean region.
- **nodiflorus* Raf. l.c., nom. (*Mesembryanthemum nodiflorum* Linn.). Mediterranean region.
- ***MESEMBRYANTHUS** Raf. Fl. Tellur. 1:86. 1836 [1837], nom., sphalm.=praec.
- NEMALLOSIS** Raf. Fl. Tellur. 3:34. 1836 [1837], descr.=Mollugo Linn.
- erecta* Raf. l.c., descr. (*Pharnaceum mollugo* Linn.; *Alsine erecta pentaphylla* Burm. Thes. Zeyl. 13. t. 7. 1737). Ceylon=Mollugo oppositifolia Linn.; quoad syn. Burm.=M. pentaphylla Linn.
- prostrata* Raf. l.c., descr. (*Pharnaceum mollugo* Linn.). India=Mollugo oppositifolia Linn.
- PLENCKIA** Raf. Specch. Sci. 1:194. 1814, descr.; Précis Découv. Somiol. 1814, nom. (p. 4 of cover); Jour. Bot. (Desv.) 4:277 (err. 177). 1814, nom.=Mollugo Linn.
- setiflora* Raf. Specch. Sci. l.c., nom. (*Glinus setiflorus* Forsk.). Arabia=Mollugo setiflorus (Forsk.) Chiov. (*Mollugo hirta* Thunb.).
- RADIANA** Raf. Specch. Sci. 1:88. 1814, descr.; Précis Découv. Somiol. 1814, nom. (p. 4 of cover); Jour. Bot. (Desv.) 4: 277 (err. 177). 1814, nom.=Cypselea Turp. (1806).

petiolata Raf. Specch. Sci. l.c., descr. Santo Domingo=Cypselea humifusa Turp.

SESUVIUM Linn.

verrucosum Raf. New Fl. N. Am. 4:16. 1836 [1838], descr.; Aut. Bot. 99. 1840, nom.; P. Wils. N. Am. Fl. 21:274. 1932. Arkansas. (*S. sessile* B. L. Robinson, 1897, non Pers. 1806).

**SQUIBBIA* Raf. New Fl. N. Am. 4:16. 1836 [1838], nom., sub *Sesuvium verrucosum* Raf.=*Sesuvium* Linn.

**maritima* Raf. l.c., nom. (*Sesuvium pentandrum* Ell.). South-eastern United States=*Sesuvium maritimum* (Walt.) Britton, Sterns & Poggenb.

PORTULACACEAE

CLAYTONIA Linn.

**dilatata* Raf. Aut. Bot. 20. 1840, descr. (*Claytonia caroliniana* Michx.). New England=*C. caroliniana* Michx.

**linearis* Raf. l.c., descr. Arkansas (*C. media* (DC.) Small, 1933).

EUTMON Raf. Atl. Jour. 1:177. 1833, descr.; Herb. Raf. 23. 1833, descr.=*Talinum* Adans. (1763).

napiforme Raf. l.c., descr. (*Talinum napiforme* DC.); Act. Soc. Linn. Bordeaux 6:267. 1834, nom. (*Phemeranthus napiformis* Raf.). Texas=*Talinum napiforme* DC.

LEPTRINA Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, nom.; Jour. Phys. Chim. Hist. Nat. 89:96. 1819, descr.; Isis von Oken 1820, 1: Lit. Anz. 237. 1820, descr.; Ann. Gén. Sci. Phys. 5:349. 1820, nom.; Isis von Oken 1821, 2:978. 1821, nom.; Good Book 21, 22. 1840, nom.=? *Montia* Linn.¹⁰

autumnalis Raf. Jour. Phys. Chim. Hist. Nat. 89:96. 1819, descr.; Isis von Oken 1820, 1: Lit. Anz. 237. 1820, descr. Ohio=? *Montia fontana* Linn.

PHEMERANTHUS Raf. Med. Repos. II. 5:350. 1808, nom.; Jour. Bot. (Paris) 2:167. 1809, nom.; Specch. Sci. 1:86. 1814, descr.; Am. Monthly Mag. Crit. Rev. 4:193. 1819, nom., nota (*Talinum teretifolium* Pursh); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, nom., nota (*Talinum teretifolium* Pursh)=*Talinum* Adans. (1763).

**napiformis* Raf. Atl. Jour. 1:177. 1833, nom. (*Eutmon napiforme* Raf.); Herb. Raf. 23. 1833, nom. (*Talinum napiforme* DC.). Texas=*Talinum napiforme* DC.

teretifolius Raf. Med. Repos. II. 5:350. 1808, nom., nota Jour. Bot. (Paris) 2:167. 1809, nom., nota (*Talinum teretifolium* Pursh); A. Gray, Am. Jour. Sci. 40:226. 1841, nom.; Specch. Sci. 1:86. 1814, descr.; Am. Monthly Mag. Crit. Rev. 2:174. 1818, nom., nota (*Talinum teretifolium* Pursh); op. cit. 266. 1818, nom. (*Talinum teretifolium* Pursh); Life of Travels 22. 1836, nom.; Aut. Bot. 175. 1840, nom. (*Talinum teretifolium* Pursh). Pennsylvania to Carolina and Alabama=*Talinum teretifolium* Pursh.

**PHEMORANTHUS* Raf. Act. Soc. Linn. Bordeaux 6:267. 1834, nom.=*praec.*

**napiformis* Raf. l.c., nom.=*Phemeranthus napiformis* Raf.=*Talinum napiforme* DC.

TALINUM Raf. Am. Monthly Mag. Crit. Rev. 2:174. 175. 1818, nom. nov. *Talinum* Adans.; op. cit. 4:193. 1819, nom. (*Talinum* Adans.); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, nom. (*Talinum* Adans.)=*Talinum* Adans. (1763).

**teretifolium* Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, nom. (*Talinum teretifolium* Pursh); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, nom. Eastern North America.

BASELLACEAE

GANDOLA Linn.; Raf. Sylva Tellur. 60. 1838, descr. (*Gandola Rumph.*, 1747)=*Basella* Linn.

**alba* Raf. l.c., nom., nota (*Gandola I alba* Rumph. Herb. Amb. 5:417. 1747). Moluccas=*Basella alba* Linn.=*B. rubra* Linn.; see Merrill, Interpret. Rumph. Herb. Amb. 218. 1917.

nigra Raf. l.c., descr. (*Basella nigra* Lour.). Indo-China (Annam)=*Basella rubra* Linn.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):152. 1935.

¹⁰ S. Watson, Bibl. Ind. N. Am. Bot. 1:122. 1878, placed *Leptrina* as a doubtful synonym of *Elatine* Linn. of the *Elatinaceae*. The description is not good for either *Montia* or *Elatine*.

CARYOPHYLLACEAE

ADENARIUM Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, nom., nota (*Arenaria peploides* Linn.); op. cit. 4:193. 1819, nom., nota (*Arenaria peploides* Linn.); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, nom., nota (*Honkenya* Ehrh., non Willd.); Act. Soc. Linn. Bordeaux 6:267. 1834, nom.; New Fl. N. Am. 1:62. 1836, descr.; Aut. Bot. 18. 1840, nom. (*Honkenya peploides* Ehrh.)=*Arenaria* Linn.

maritimum Raf. New Fl. N. Am. 1:62. 1836, descr. (*Holosteum succulentum* Linn.; *Arenaria peploides* auct. Am.). Atlantic shores of North America=*Arenaria peploides* Linn.

†*peploides* Raf. l.c., descr. (*Arenaria peploides* Linn.). Europe =*Arenaria peploides* Linn.

**ADMARIUM* Raf. Am. Monthly Mag. Crit. Rev. 4:188. 1819, nom., *sphalm.*=*praec.*

AGROSTEMA Linn.=*Agrostemma* Linn.=*Lychnis* Linn.

**celirosa* Raf. Aut. Bot. 27. 1840, nom.=*A. coeli-rosea* Linn.=*Lychnis coeli-rosea* (Linn.) Desr. Mediterranean region.

**coronarium* Raf. Med. Repos. III. 2:339. 1811, nom., *sphalm.* =*Agrostemma coronaria* Linn.=*Lychnis coronaria* (Linn.) Desr. Europe.

ALIFIOLA Raf. Aut. Bot. 24. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:92. 1921, nom.=*Silene* Linn.

dichotoma Raf. l.c., nom. (*Silene alata* Raf.); Pennell, l.c., nom. Kentucky.

**floridana* Raf. l.c., descr. Florida.

AMORGINE Raf. New Fl. N. Am. 4:44. 1836 [1838], descr. Ex descr.=*Siphonochia* Torr. & Gray (1838), nom. conserv. (*Buinalis* Raf., 1838).

albescens Raf. l.c., descr.; Aut. Bot. 151. 1840, nom. Florida. Ex descr.=*Siphonochia americana* (Nutt.) Torr. & Gray.

#*ANEVRIPHIS* Raf. Aut. Bot. 29. 1840, descr., subgen. *Silene* Linn.

ANYCHIA Michx.; Raf. New Fl. N. Am. 4:41. 1836 [1838], descr., nota; New Fl. N. Am. 4:43. 1836 [1838], sub *A. fastigiata* Raf., descr.=*Paronychia* Mill. (1754).

**capillaris* Raf. Aut. Bot. 153. 1840, nom., *sphalm.*=*A. capillacea* DC.=*Paronychia canadensis* (Linn.) Wood (*Anychia canadensis* B.S.P.).

conferta Raf. Atl. Jour. 1:16. 1832, descr. Western Kentucky=*Paronychia fastigiata* (Raf.) Fernald.

divariata Raf. New Fl. N. Am. l.c., descr., Aut. Bot. 152. 1840, nom. Alleghany Mountains, Kentucky=*Paronychia fastigiata* (Raf.) Fernald, var. *pumila* (Wood) Fernald (*Paronychia montana* (Niewl.) Pax & Hoffm.).

†*fastigiata* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, nom.; Atl. Jour. 1:16. 1832, descr.; New Fl. N. Am. 4:42. 1836 [1838], descr.; Aut. Bot. 152. 1840, nom. Kentucky=*Paronychia fastigiata* (Raf.) Fernald.

filiformis Raf. ex Britton, Bull. Torr. Bot. Club 13:187. 1886, nom. in syn. (*Anychia capillacea* DC.)=*Paronychia canadensis* (Linn.) Wood.

**floridana* Baldw. ex Raf. New Fl. N. Am. 4:40. 1836 [1838], nom. in syn. sub *Buinalis floridana* Raf. Florida.

lateralis Raf. Atl. Jour. 1:16. 1832, descr.; New Fl. N. Am. 4:42. 1836 [1838], descr.; Aut. Bot. 152. 1840, nom. Kentucky=*Paronychia fastigiata* (Raf.) Fernald.

nudiflora Raf. New Fl. N. Am. 4:43. 1836 [1838] descr.; Aut. Bot. 153. 1840, nom. Florida.

**patula* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, nom. Kentucky.

polygonoides Raf. Atl. Jour. 1:16. 1832, descr.; New Fl. N. Am. 4:43. 1836 [1838], descr. sub *A. fastigiata* Raf. Alleghany Mountains=*Paronychia fastigiata* (Raf.) Fernald.

#*APLOMA* Raf. Fl. Tellur. 2:53. 1836 [1837], descr., subgen. *Gypsophila* Linn. (Type *Gypsophila struthium* Linn.).

ARENARIA Linn.

†*aristata* Raf. Car. Nuov. Gen. Sp. Sicil. 75. 1810, descr.; Stat. Gen. Sicil. 28. 1810, nom.; Chloris Aetn. 9, 14. 1815, nom. Sicily.

connata Raf. Atl. Jour. 1:151. 1833, descr. Canada.

flexuosa Raf. Atl. Jour. 1:151. 1832, descr. Saint Lawrence River near Lake Ontario.

**heterophylla* Raf. Aut. Bot. 18. 1840, descr. Arkansas.

imbricata Raf. Med. Repos. II. 5:361. 1808, descr.; Jour. Bot. (Paris) 1:229. 1809, descr.; Gerard, Bull. Torr. Bot. Club 12:37. 1885, nom. (*Arenaria squarrosa* Michx.). New Jersey=*Arenaria caroliniana* Walt.

sperguloides Raf. Atl. Jour. 1:154. 1832, descr.; Herb. Raf. 69. 1833, nom. Pennsylvania.

- ARGYROCOMA** Raf. New Fl. N. Am. 4:41. 1836 [1838], *descr.* = *Paronychia* Mill. (1754).
**dichotoma* Raf. op. cit. 43, *descr.* sub *A. imbricata* Raf. (*Achyranthes dichotoma* Linn.; *Illecebrum dichotomum* Pers.); Aut. Bot. 16. 1840, *nom.* Virginia = *Paronychia dichotoma* (Linn.) Nutt.
imbricata Raf. l.c., *descr.*; Aut. Bot. 16. 152. 1840, *nom.* (*Paronychia argyrocoma* Nutt.; *Anychia argyrocoma* Michx.). Virginia, Carolina = *Paronychia argyrocoma* (Michx.) Nutt.
- ARROSTIA** Raf. Car. Nuov. Gen. Sp. Sicil. 75. 1810, *descr.*; Fl. Tellur. 2:53. 1836 [1837], *descr.* = *Gypsophila* Linn.
altissima Raf. Fl. Tellur. 2:54. 1836 [1837], *descr.* (*Gypsophila altissima* Linn.). Siberia.
dichotoma Raf. Car. Nuov. Gen. Sp. Sicil. 76. 1810, *descr.*; Stat. Gen. Sicil. 27. 1810, *nom.*; *Chloris Aetn.* 4. 1815, *nom.*; Fl. Tellur. 2:53. 1836 [1837], *descr.* Sicily. (*Gypsophila arrostii* Guss., 1826).
paniculata Raf. Fl. Tellur. 2:54. 1836 [1837], *descr.* (*Gypsophila paniculata* Linn.); Aut. Bot. 26. 1840, *nom.*, *nota*. Siberia.
**parviflora* Raf. Aut. Bot. 26. 1840, *descr.* Armenia or Caucasus.
- ATOCION** Adans.; Raf. Aut. Bot. 28. 1840, *descr.* = *Silene* Linn.
**armeria* Raf. op. cit. 29, *descr.* [*Silene armeria* Linn.]; Fourr. Ann. Soc. Linn. Lyon II. 16:344. 1868. Europe.
**armeroides* Raf. l.c., *descr.* Kentucky, Alabama = *praeac.* var. *albiflora* Raf. l.c., *nom.*
pauciflora Raf. l.c., *nom.*
uniflora Raf. l.c., *nom.*
**latifolium* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
**miniaturum* Raf. Ann. Nat. Ann. Synop. 12. 1820, *nom.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
- BALLARION** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom. nov. provis.* (*Micropetalum lamuginosum* Pers.); op. cit. 4:189. 1819, *nom.*; Good Book 46. 1840, *nom.* = *Stellaria* Linn.
- BIGELONIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.*, *sphalm.* = *Bigelowia* Raf. = *Stellaria* Linn.
elongata Raf. ex Jacks*. Ind. Kew. 1:302. 1893 (*Stellaria elongata* Nutt.). North America.
montana Raf. ex Jacks*. l.c. (*Arenaria seu Stellaria* sp. Bigelow, New Engl. Jour. Med. Surg. 5:334. 1816, *descr.*). White Mountains of New Hampshire = *Stellaria calycantha* (Ledeb.) Bong.
- BIGELOWIA** Raf. Am. Monthly Mag. Crit. Rev. 1:442. 1817, *descr.*; op. cit. 2:266. 1818, *nom.*, *nota* (*Micropetalum lanuginosum* Pers.); op. cit. 4:188, 193. 1819, *nom.*, *nota* (*Stellaria elongata* Nutt.); Fl. Ludovic. 169. 1817, *nom.* North America = *Stellaria* Linn.
montana Raf. op. cit. 1:442. 1817, *descr.* (*Arenaria seu Stellaria* sp. Bigel. New Engl. Jour. Med. Surg. 5:334. 1816, *descr.* White Mountains of New Hampshire = *Stellaria calycantha* (Ledeb.) Bong.
- BUINALIS** Raf. New Fl. N. Am. 4:40. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.* = *Siphonochia* Torr. & Gray (1838), *nom. conserv.* (*Buinalis* Raf., 1838).
floridana Raf. New Fl. l.c., *descr.* (*Herniaria americana* herb. Collins; *Anychia floridana* herb. Baldw.); Aut. Bot. 16. 151. 1840, *nom.* Florida = *Siphonochia americana* (Nutt.) Torr. & Gray.
- CERASTIUM** Linn.
bracteatum Raf. Précis Découv. Somiol. 36. 1814, *descr.*; Jour. Bot. (Desv.) 4:269. 1814, *descr.* Pennsylvania.
fulvum Raf. l.c., *descr.* New Jersey, Pennsylvania, Virginia = *C. vulgatum* Linn.
nutans Raf. l.c., *descr.*; Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.*; Am. Jour. Sci. 1:81. 1818, *nom.*; Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.* (*Cerastium glutinosum* Nutt.); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.* (*Cerastium glutinosum* Nutt.). Pennsylvania. (*C. longipedunculatum* Muhl., 1813, *nom.*).
pumilum Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom.* (*Cerastium semidecandrum* Linn.); Am. Jour. Sci. 1:81. 1818, *nom.*; Am. Monthly Mag. Crit. Rev. 1:358. 1817, *nom.* "purnilum," Pennsylvania.
velutinum Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:225. 1809, *descr.* Delaware, Pennsylvania. (*C. oblongifolium* Torr., 1824).
- CHETROPIS** Raf. Fl. Tellur. 3:80. 1836 [1837], *descr.* = *Arenaria* Linn.
setacea Raf. l.c., *descr.* (*Alsine mucronata* sensu Gouan III. 22. 1773; *A. aristata* Soland. ex Russell, Nat. Hist. Aleppo, ed. 2, 2:248. 1794). Syria, Italy.
- DIANTHUS** Linn.
**armerioides* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*; Précis Découv. Somiol. 36. 1814, *descr.*; Jour. Bot. (Desv.) 4:269. 1814, *descr.*; Am. Monthly Mag. Crit. Rev. 1:357. 1817, *nom.*, *nota* (*D. armeria* sensu Barton); op. cit. 2:266, 344. 1818, *nom.*, *nota* (*D. armeria* sensu Pursh); op. cit. 4:193. 1819, *nom.*, *nota* (*D. armeria* sensu Nutt.). New Jersey = *Dianthus armeria* Linn.
dubius Raf. Car. Nuov. Gen. Sp. Sicil. 75. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.* Sicily.
- EBRAXIS** Raf. Aut. Bot. 29. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* = *Silene* Linn.
virgata Raf. l.c., *nom.* (*Silene antirrhina* Linn.). Eastern North America.
- EVACTOMA** Raf. Aut. Bot. 23. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* = *Silene* Linn.
stellata Raf. l.c., *nom.* (*Cucubalus stellatus* Linn.; *Silene stellata* Ait. f.); Pennell, l.c., *nom.* Eastern North America = *Silene stellata* (Linn.) Ait. f.
- EXEMIX** Raf. Aut. Bot. 27. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* = *Lychnis* Linn.
grandiflora Raf. l.c., *descr.* (*Lychnis grandiflora* Jacq., *L. coronata* Thunb.); Pennell, l.c., *nom.* China = *Lychnis coronata* Thunb.
- #GYMESIA** Raf. Aut. Bot. 29. 1840, *descr.*, subgen. *Silene* Linn.
- #GYPSARIA** Raf. Fl. Tellur. 2:53. 1836 [1837], *descr.* subgen. *Gypsophila* Linn. (Type *Gypsophila muralis* Linn.). Eurasia.
- GYPSOPHILA** Linn.
**corymbosa* Raf. Aut. Bot. 25. 1840, *descr.* Florida.
**nudicaulis* Raf. op. cit. 26, *descr.* Europe (Carpathian Mountains).
**suffruticosa* Raf. l.c., *descr.* Europe (Carpathian Mountains).
**ternifolia* Raf. Herb. Raf. 47, *descr.*, 50, *nom.* 1833; Aut. Bot. 25. 1840, *nom.* Oregon.
- HERNIARIA** Linn.
**laxa* Raf. Aut. Bot. 151. 1840, *descr.* Podolia (Southwestern Russia) = *Herniaria hirsuta* Linn.
**montana* Raf. *Chloris Aetn.* 14. 1815, *nom.* Sicily.
nebrodensis Raf. Am. Monthly Mag. Crit. Rev. 1:440. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.* Sicily.
- HONCKENIA** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom.* (*Arenaria peploides* Linn.) = *Honkenya* Ehrh. (1788) = *Arenaria* Linn.
- HONKENYA** Bartl. (1830) = *Honkenya* Ehrh. (1788) = *Arenaria* Linn.
**maritima* Raf. Aut. Bot. 18. 1840, *nom.* (*Holosteum succulentum* Linn.; *Adenarium maritimum* Raf.). North America = *Arenaria peploides* Linn.
- ILLECEBRUM** Linn.
**filiforme* Raf. Aut. Bot. 153. 1840, *descr.* Western Europe.
**lanatum* Raf. l.c., *descr.* Siberia.
**spinosum* Raf., l.c., *descr.* Spain.
- IXOCA** Raf. Aut. Bot. 25. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* = *Silene* Linn.
tenella Raf. l.c., *nom.* (*Silene quadridentata* Pers. ["4 dentata L."]); Pennell l.c., *nom.*, *nota*. Europe (Alps).
- *IXOCAULON** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, *nom.*, *nota*, iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.* = *Silene* Linn.
- *LAHAYEA** Raf. New Fl. N. Am. 1:65. 1836, *nom. nov.* Hagea Pers. (1805) = *Hagea* Vent. (1799) = *Lahaya* Roem. & Schult. (1819) = *Polycarpaea* Lam. (1792), *nom. conserv.* (*Polia* Lour., 1790).
**fragilis* Raf. Aut. Bot. 154. 1840, *descr.* (*Polycarpaea fragilis* Delile). Egypt.
**memphitica* Raf. l.c., *nom.* (*Polycarpaea memphitica* Delile). Egypt = *Polycarpon indicum* (Retz.) Merr. (*Polycarpon loeflingiae* Benth. & Hook. f.).
- LYCHNIS** Linn.
**nocturna* Raf. Aut. Bot. 28. 1840, *nom.* sub *Physocarpum vespertinum* Raf., *sphalm.* = *Lychnis noctiflora* Schreb. = *Silene noctiflora* Linn. Europe.
- MELARGYRA** Raf. Fl. Tellur. 3:81. 1836 [1837], *descr.* = *Spergularia* J. & C. Presl (1819).

- canadensis* Raf. ex Jacks*. Ind. Kew. 2:191. 1894 (*Arenaria canadensis* Pers.). North America=*Spergularia canadensis* (Pers.) G. Don.
- media* Raf. ex Jacks*. l.c. (*Arenaria media* Linn.). Europe, North America=*Spergularia media* (Linn.) C. Presl.
- purpurea* Raf. ex Jacks*. l.c. (*Arenaria purpurea* Pers.). Spain=*Spergularia purpurea* (Pers.) G. Don.
- rosea* Raf. Fl. Tellur. 3:81. 1836 [1837], descr. Pennsylvania.
- rubra* Raf. ex Jacks*. l.c. (*Arenaria rubra* Linn.). Europe, North America=*Spergularia rubra* (Linn.) J. & C. Presl.
- #**MONILIX** Raf. Atl. Jour. 1:151. 1833, nom., subgen. *Arenaria* Linn. (Type *Arenaria connata* Raf.).
- #**NESTELMESA** Raf. Aut. Bot. 27. 1840, nom., subgen. *Lychnis* Linn. (Type *Lychnis alpina* Linn.). Labrador=*Lychnis* Linn.
- OBERNA** Adans.; Raf. Aut. Bot. 23. 1840, descr. (*Behenantha* Otth)=*Silene* Linn.
- **fabaria* Raf. op. cit. 24. 1840, nom. [*Silene fabaria* sensu Bertol.]. Sicily, Crete.
- **nivea* Raf. op. cit. 23, nom. (*Silene nivea* Otth; *Cucubalus niveus* Nutt.). Pennsylvania=*Silene nivea* Otth.
- **reticulata* Raf. l.c., descr. Siberia or northwestern America.
- OTITES** Adans.; Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, nom., nota; Act. Soc. Linn. Bordeaux 6:264. 1834, nom., nota; Aut. Bot. 25. 1840, descr.=*Silene* Linn.
- **cuneifolia* Raf. Aut. Bot. 25. 1840, descr. (*Silene otites* Sm.). Europe=*Silene otites* Sm.
- **myrianthes* Raf. l.c., descr. Siberia.
- **parviflora* Raf. l.c., nom. [*Silene parviflora* Pers.]. Europe.
- **sibirica* Raf. l.c., nom. [*Silene sibirica* Pers.]. Europe.
- PARONYCHIA** Mill.
- **cuspidata* Raf. Aut. Bot. 153. 1840, descr. (*Illecebrum paronychia* Linn.). Portugal=*Paronychia argentea* Lam.
- PHYSOCARPON** Neck.; Raf. Aut. Bot. 27. 1840, descr.=*Lychnis* Linn.
- **arvense* Raf. l.c., descr. [*Lychnis dioica* Linn.]. Europe.
- **capitatum* Raf. op. cit. 28, descr. Germany.
- **vespertinum* Raf. l.c., descr. (*Lychnis vespertina* Sibth.). England, Germany.
- PLAGIDIA** Raf. New Fl. N. Am. 4:42. 1836 [1838], descr.=*Paronychia* Mill. (1754) (*Gastronychia* Small, 1933).
- rufa* Raf. op. cit. 43, descr. (*Anychia herniarioides* Michx.?). Aut. Bot. 16, 152. 1840, nom. Florida=*Paronychia herniarioides* (Michx.) Nutt. (*Gastronychia herniarioides* Small; *Anychiastrum herniarioides* Small.).
- PLECONAX** Raf. Aut. Bot. 24. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:92. 1921, nom.=*Silene* Linn.
- **striata* Raf. l.c., nom. (*Silene conica* Linn.). Europe.
- ***QAERIA** Raf. Aut. Bot. 153. 1840, nom. (*Anychia "capillaris" sphalm.*=*A. capillacea* DC.)=*Queria* Loeff. (1752).
- **canadensis* Raf. l.c., nom. (*Queria canadensis* Linn.). New England to Kentucky=*Anychia canadensis* (Linn.) Britton, Sterns & Poggenb.
- QUERIA** Loeff.
- **fastigiata* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, nom. [*Anychia fastigiata* Raf.]. Kentucky=*Paronychia fastigiata* (Raf.) Fernald.
- SAPONARIA** Linn.
- aetnensis* Raf. Chloris Aetn. 9, 14. 1815, nom. (*Saponaria caespitosa* Bivona). Sicily.
- **caespitosa* Raf. Statist. Gen. Sicil. 27. 1810, nom.; Specch. Sci. 1:9. 1815, nom. sub *S. aetnensis* Raf.=*S. caespitosa* Bivona. Sicily.
- sicula* Raf. Specch. Sci. 2:7. 1814, descr. Sicily.
- villosa* Raf. Fl. Ludovic. 93. 1817, descr. (*Saponaria* Rob. Voy. Louis. 3:486. 1807); Med. Fl. 2:261. 1830, nom. Louisiana.
- **viscaria* Raf. Med. Fl. 2:261. 1830, nom., sphalm.=*Saponaria vaccaria* Linn. North America.
- SILENE** Linn.
- **alata* Raf. Aut. Bot. 24. 1840, nom., in obs. (*Alifolia dichotoma* Raf.). Kentucky.
- **catesbri* Raf. Western Rev. Miscel. Mag. 2:95. 1819, nom. sphalm. Eastern North America=*Silene catesbaei* Walt.=*S. virginica* Linn.
- **fistulosa* Raf. Western Minerva 41. 1821, nom., iter. Fox, Science II. 12:213. 1900. Kentucky.
- **furcata* Raf. Aut. Bot. 28. 1840, descr. Labrador and Hudson Bay=*Lychnis furcata* (Raf.) Fernald, Rhodora 34:22. 1932 (*L. affinis* J. Vahl, 1842).

- **levigata* Raf. Herb. Raf. 61. 1833, nom. (*S. rotundifolia* Nutt.). Kentucky or Illinois.
- miniata* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, nom.; Ann. Nat. Ann. Synop. 12. 1820, descr.; Aut. Bot. 18. 1840, nom. in syn. sub *Silene virginica* Linn. Western Pennsylvania, Virginia and Kentucky=*Silene virginica* Linn.
- **quadridentata* Raf. Aut. Bot. 25. 1840, nom., sphalm.=*S. quadrifida* Linn. Europe.
- **scabra* Raf. op. cit. 18, descr. Western Kentucky=*S. regia* Sims; see Fernald, Rhodora 46:40. 1944.
- **shortiana* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, nom. Kentucky.
- SPERGULA** Linn.
- falcata* Raf. New Fl. N. Am. 4:16. 1836 [1838], descr. Lower Ohio and Missouri Rivers.
- pumila* Raf. Fl. Ludovic. 93. 1817, descr. (*Spergula* Rob. Voy. Louis. 3:486. 1807). Louisiana.
- STELLARIA** Linn.
- **latifolia* Raf. Herb. Raf. 66. 1833, nom. Appalachian Mountains.
- **montana* Raf. Fl. Ludovic. 171. 1817, nom.; Am. Monthly Mag. Crit. Rev. 2:207. 1818, descr. New York (Catskill Mountains).
- tenella* Raf. Fl. Ludovic. l.c., nom.; Am. Monthly Mag. Crit. Rev. l.c., descr.; op. cit. 344. 1818, nom. (*Stellaria graminea* Bigelow); M'Murtrie, Sketch. Louisv. 225. 1819, nom. New York, Pennsylvania, Kentucky=*S. longifolia* Muhl.
- STERIS** Adans.=*Lychnis* Linn.
- **viscaria* Raf. Aut. Bot. 27. 1840, nom. (*Lychnis viscaria* Linn.). Europe.
- STONCKENYA** Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, nom., sphalm.=*Honkenya* Ehrh. (1788)=*Arenaria* Linn.
- TEROGIA** Raf. Fl. Tellur. 3:56. 1836 [1837], descr.=*Ortega* Linn.
- dichotoma* Raf. l.c., nom. (*Ortega dichotoma* Linn.). Spain, North Africa.
- TUNICA** Scop.
- †*dianthoides* Raf. Aut. Bot. 26. 1840, nom., nota (*Gypsophila dianthoides* Sibth. & Sm.). Crete.
- **podolica* Raf. l.c., descr. Southwestern Russia (Podolia).
- †*trigida* Raf. op. cit. 27, nom. (*Gypsophila rigida* Linn.). Europe=*Tunica saxifraga* (Linn.) Scop.
- XAMILENIS** Raf. Aut. Bot. 24. 1840, descr., nom. nov. *Nanosilene* Otth (1824, ut sect. *Silene* Linn.); Pennell, Bull. Torr. Bot. Club 48:92. 1921, nom.=*Silene* Linn.
- **uniflora* Raf. l.c., nom. (*Silene acaulis* Linn.). Labrador.

NYMphaeaceae

- ***NELUMBICUM** Raf. Med. Repos. II. 5:351. 1808, nom., sphalm.=*Nelumbium* Juss. (1789)=*Nelumbo* Adans. (1763).
- NELUMBium** Juss. (1789)=*Nelumbo* Adans. (1763).
- codophyllum* Raf. Fl. Ludovic. 10, nom., 22, descr., 1817 (*Napoleone* Rob. Voy. Louis. 2:323, 441; 3:355. 1807); Am. Monthly Mag. Crit. Rev. 4:194. 1819, nom.; Med. Fl. 2:42. 1830, descr.; Casket 1831:134. 1831, nom.; Sat. Eve. Post 10(566):[4]. 1831, nom. Louisiana=*Nelumbium luteum* Willd.=*Nelumbo pentapetala* (Walt.) Fernald (*Nelumbo lutea* Pers.).
- luteum* Willd.; Raf. Med. Fl. 2:42. 1830, descr. Eastern United States=praec.
- var. *albiflorum* Raf. l.c., descr.
- levigatum* Raf. op. cit. 43, descr.
- maculatum* Raf. op. cit. 42, descr.
- pallidum* Raf. l.c., descr.
- undulatum* Raf. l.c., descr.
- NYMPHEA**¹¹ Raf. Med. Repos. II. 5:354. 1808, nom.; Jour. Bot. (Paris) 2:173. 1809, nom.; Med. Fl. 2:45. 1830, descr.=*Nymphaea* Linn. 1753, nom. conserv. (*Castalia* Salisb., 1805).
- crenulata* Raf. Ilcc., nom. Eastern North America.
- **fusca* Raf. Herb. Raf. 53. 1833, nom. Rocky Mountains or Oregon?

¹¹ All but *N. fusca* Raf. are entered in Index Kewensis 2: 321-322. 1894 under *Nymphaea* Linn.

NYPHAEA (*continued*).

- maculata* Raf. Med. Fl. 2:45. 1830, *descr.*; Casket 1831:476. 1831, *descr.*; Sat. Eve. Post 10(534):[4]. 1831, *descr.*, non Schum. & Thonn. (1828). Canada and New York, near Lake Ontario=*Nymphaea tuberosa* Paine, 1865.
- odorata* Ait.; Raf. Med. Fl. 2:45. 1830, *descr.* Eastern North America.
var. *chlorhiza* Raf. l.c., *descr.* Casket 1831:476. 1831, *descr.*; Sat. Eve. Post 10(534):[4]. 1831, *descr.*
var. *parviflora* Raf. l.c., *descr.*
var. *rubella* Raf. l.c., *descr.*
- rosea* Raf. Med. Fl. l.c., *descr.*; Casket 1831:476. 1831, *descr.*; Sat. Eve. Post 10(534):[4]. 1831, *descr.* New York, Ohio=*Nymphaea odorata* Ait. var. *rosea* Pursh.
- spiralis* Raf. l.c., *descr.* (*Nymphaea alba* sensu Michx.; *N. odorata* sensu Ell.). Southern United States=*Nymphaea odorata* Ait.
- ROPALON** Raf. New Fl. N. Am. 2:17. 1836 [1837], *descr.*=Nuphar Smith (1808 vel 1809), *nom. conserv.* (*Nympho-zanthus* L. C. Rich., 1808).
- sagittatum* Raf. l.c., *descr.* (*Nymphaea sagittifolia* Walt.; *N. longifolia* Michx.). Carolina to Florida=*Nuphar sagittae-folium* (Walt.) Pursh.

RANUNCULACEAE

- ***ABALEMIS** Raf. Act. Soc. Linn. Bordeaux 6:262. 1834, *descr.*, iter. Merr. Proc. Am. Philos. Soc. 86:86, 89. 1942, *nom.*, *nota* (Type *Anemone virginiana* Linn.)=*Anemone* Linn.
- ABELEMIS** Raf. ex Britton, Ann. N. Y. Acad. Sci. 6:223. 1892, *nom.* in syn.=*Abalemis* Raf.=*Anemone* Linn.
petiolaris Raf. ex Britton, l.c., *nom.* in syn. Eastern United States=*Anemone virginiana* Linn.
- ACONITUM** Linn.
cordatum Raf. New Fl. N. Am. 1:56. 1836, *descr.* Ohio, Kentucky.
var. *biflorum* Raf. l.c., *descr.*
- divergens* Raf. l.c., *descr.* (*Aconitum uncinatum* sensu DC.; *A. volubile* Muhl.). Alleghany Mountains=*A. uncinatum* Linn.
- flexuosum* Raf. op. cit. 55, *descr.* (*Aconitum uncinatum* sensu Michx.). Unaka Mountains, North Carolina=*A. uncinatum* Linn.
- **kelleri* Raf. New Fl. N. Am. 1:57. 1836, *nom.*=*A. koehleri* Reichb. Siberia.
- †*oregonense* Raf. Herb. Raf. 49. 1833, *nom.*; New Fl. N. Am. 1:57. 1836, *descr.* Oregon.
- scandens* Raf. New Fl. N. Am. 1:55. 1836, *descr.* Peaks of Otter, Virginia.
- truncatum* Raf. l.c., *descr.* Western Kentucky, Illinois.
- ***ACTEA** Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.*; Ann. Gén. Sci. Phys. 7:18. 1820, *nom.*; Med. Fl. 1:89. 1828, *descr.*, iter. Man. Med. Bot. 89. 1841=*Actaea* Linn.
- **alba* Raf. Med. Fl. 1:89. 1828, *descr.*, iter. Man. Med. Bot. 89. 1841; Med. Fl. 2:186. 1830, *nom.* North Carolina=*Actaea alba* (Linn.) Mill.
- **nigra* Raf. Med. Fl. 2:186. 1830, *nom.* Northern and Boreal regions=*Actaea nigra* Gaertn. Mey. & Sherb.=*Actaea spicata* Linn.
- **racemosa* Raf. op. cit. 1:85. 1828, *nom.*, iter. Man. Med. Bot. 85. 1830; New Fl. N. Am. 1:60. 1836, *nom.* Eastern North America=*Cimicifuga racemosa* (Linn.) Nutt.
- **rubra* Raf. Med. Fl. l.c.; op. cit. 2:186. 1830, *nom.* Eastern North America=*Actaea rubra* Willd.
- **spicata* Raf. op. cit. 2:186. 1830, *nom.*; New Fl. N. Am. 1:60. 1836, *nom.* Boreal and temperate regions=*Actaea spicata* Linn.
- ADONIS** Linn.
†*triparia* Raf. Herb. Raf. 60. 1833, *nom.*; New Fl. N. Am. 1:66. 1836, *descr.* (*Adonis autumnalis* auct. Am.). Western Kentucky to Louisiana=*Adonis annua* Linn. (*A. autumnale* Linn.).
- ***AJAXIA** Raf. Med. Fl. 2:216. 1830, *nom.* sub *Delphinium* Raf.=*Delphinium* Linn. [*Delphinium ajacis* Linn.].
- ANEMONE** Linn.
anomala Raf. Fl. Ludovic. 82. 1817, *descr.* (*Anemone* 2, Rob. Voy. Louis. 3:463. 1807). Louisiana.
- **brevifolia* Raf. Herb. Raf. 49. 1833, *nom.* Rocky Mountains or Oregon.
- **lacera* Raf. l.c., *nom.* Rocky Mountains or Oregon.

- pedata* Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:230. 1809, *descr.* New Jersey=*Anemone nemorosa* Linn.
- BOTROPHIS** Raf. Med. Fl. 1:85. 1828, *descr.*; iter. Man. Med. Bot. 85. 1841; Loud. Gard. Mag. 8:246. 1832, *nom.*, *nota* (*Macrotrys* Raf., 1808), iter. Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, iter. Britten, Jour. Bot. 38:227. 1900; Act. Soc. Linn. Bordeaux 6:262. 1834, *nom.*, *nota* (*Macrotrys* Raf. 1808); Fl. Tellur. 1:59. 1836 [1837], *nom.*=*Cimicifuga* Linn.
- actaeoides* Raf. ex Fisch. & Mey. Ind. Sem. Hort. Petropol. 1:21. 1835.=*Cimicifuga racemosa* (Linn.) Nutt.
- pumila* Raf. Med. Fl. 1:86. 1828, *nom.*, *nota*, iter. Man. Med. Bot. 86. 1841. New York.
- serpentaria* Raf. op. cit. 85. f. 16, *descr.*; iter. Man. Med. Bot. l.c. (*Cimicifuga serpentaria* Pursh; *Actaea racemosa* Linn.); New Fl. N. Am. 1:60. 1836, *nom.* North America=*Cimicifuga racemosa* (Linn.) Nutt.
- CALTHA** Linn.
parnassifolia Raf. Med. Repos. II. 5:361. 1808, *descr.* "pamasifolia"; Jour. Bot. (Paris) 1:229. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.* (*Caltha ficarioides* Pursh). New Jersey=*Caltha palustris* Linn.
- CHRYSA** Raf. ("Schmaltz") ex Steud. Nomencl. 191. 1821, *nom.*=seq.
- CHRYZA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.*, *nota* (*Coptis* Salisb.); op. cit. 4:191. 1819, *nom.*, *nota* (*Coptis* Salisb.); Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.*, *nota* (*Coptis* Salisb.); Med. Fl. 1:128. 1828, *nom.*, *nota* (*Coptis* Salisb.), iter. Man. Med. Bot. 128. 1841=*Coptis* Salisb. (1807).
- borealis* Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Helleborus trifolius* Linn.); Jour. Bot. (Paris) 2:170. 1809, *nom.* (*Helleborus trifolius* Linn.); A. Gray, Am. Jour. Sci. 40: 228. 1841, *nom.*=*Coptis trifolia* (Linn.) Salisb.
- **fibraurea* Raf. Med. Fl. 1:127. 1828, *nom.* in syn. (*Fibra aurea* "Colden & Schoepf" i.e., Colden f. ex Schoepf, Mat. Med. Am. 90. 1787). North America=*Coptis groenlandica* (Oeder) Fernald, Rhodora 31:142. 1929.
- CLEMATIS** Linn.
flavescens Raf. Fl. Ludovic. 81. 1817, *descr.* (*Clematis* 1 Rob. Voy. Louis. 3:462. 1807). Louisiana.
- **parviflora* Raf. Herb. Raf. 68. 1833, *nom.*, non *C. parviflora* DC. (1823). Alleghany Mountains.
- striata* Raf. Fl. Ludovic. 82. 1817, *descr.* (*Clematis* 2 Rob. Voy. Louis. 3:462. 1807). Louisiana.
- ***DECASTIA** Raf. Anal. Nat. Tabl. Univ. 176. 1815, *nom. nov.* *Nigella* Linn.
- †**DELPHIDIUM** Raf. Anal. Nat. Tabl. Univ. 176. 1815, *nom. nov.* *Delphinium* Linn.; Am. Monthly Mag. Crit. Rev. 3: 356. 1818, *nom.*; op. cit. 4:193, 207. 1819, *nom.*; Med. Fl. 2:216. 1830, *nom.*, *nota* (*Delphinium* Linn.)=*Delphinium* Linn.
- **azureum* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky=*Delphinium azureum* Michx.
- **consolida* Raf. Med. Fl. 2:216. 1830, *nom.* [*Delphinium consolida* Linn.]. Europe.
- **exaltatum* Raf. l.c., *nom.* [*Delphinium axaltatum* Ait.]. North America.
- **flexuosum* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*; Ann. Nat. Ann. Synop. 12. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Western Pennsylvania (type), Kentucky.
- **pallidum* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
- **staphisagria* Raf. Med. Fl. 2:216. 1830, *nom.* [*Delphinium staphisagria* Linn.]. Mediterranean region.
- DELPHINIUM** Linn.
flexuosum Raf. ex Jacks*. Ind. Kew. 1:726. 1893 (*Delphinium flexuosum* Raf.). Pennsylvania to Kentucky.
- DIPLEINA** Raf. Aut. Bot. 54. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1821, *nom.*=*Actaea* Linn.
- umbellata* Raf. l.c., *descr.*; Pennell, l.c., *nom.* Siberia=? *Actaea spicata* Linn.
- ENEMION** Raf. Jour. Phys. Chim. Hist. Nat. 91:70. 1820, *descr.*; Ann. Gén. Sci. Phys. 7:18. 1820, *descr.*; Western Minerva 40. 1821, *descr.*; Fox, Science II. 12:212. 1900, *nom.*, *nota*; Kentucky Gaz. 36(15):[3]. 1822, *descr.*; Med. Fl. 1:128. 1828, *descr.* in obs. sub *Coptis trifolia* Salisb., iter. Man. Med. Bot. 128. 1841; Atl. Jour. 1:78. 1832,

- nom., nota*; Life of Travels 61. 1836, *nom.*; see J. R. Drumm. & Hutch. Kew Bull. 1920:159-161. 1920.
- bitermatum** Raf. Jour. Phys. Chim. Hist. Nat. 91:70. 1820, *descr.*; Ann. Gén. Sci. Phys. 7:387. 1820, *descr.*; Western Minerva 40. 1821, *descr.*; Kentucky Gaz. 36(15):[3]. 1822, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Med. Fl. 1:128. 1828, *nom.* sub *Coptis trifolia* Salisb., *iter.* Man. Med. Bot. 128. 1841; Atl. Jour. 1:78. 1832, *nom.*; Herb. Raf. 61. 1833, *nom.*; Aut. Bot. 175. 1840, *nom., nota* (*Isopyrum thalictroides* sensu Hook. Jour. Bot. 1:187. 1834, in *nota*, non Linn.). Ohio, Kentucky, Illinois (*Isopyrum bitermatum* (Raf.) Torr. & Gray).
- ***ENYMION** Raf. Life of Travels 61. 1836, *nom.* Kentucky=*praeec.*
- GAISSENIA** Raf. Med. Repos. II. 5:351. 1808, *nom., nota*; Jour. Bot. (Paris) 2:168. 1809, *nom., nota*; Anal. Nat. Tabl. Univ. 177. 1815, *nom.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.*=*Trollius* Linn.
- verna** Raf. Med. Repos. et Jour. Bot. II.cc., *nom.* (*Trollius americanus* Muhl.); Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.*; A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.* Pennsylvania=*Trollius americanus* Muhl.
- HARTIANA** Raf. Neogen. 2. 1825, *descr.*=*Anemone* Linn.
- caroliniana** Raf. ex Jacks*. Ind. Kew. 1:1095. 1893 (*Anemone caroliniana* Walt.). Southeastern United States.
- tenella** Raf. ex Jacks*. l.c. (*Anemone tenella* Pursh). Southeastern United States=*Anemone decapetala* Ard.
- HEPATICA** Hill.
- ***parviflora** Raf. Western Minerva 41. 1821, *nom., iter.* Fox, Science II. 12:213. 1900; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
- triloba** Chaix.
- var. **acutiloba** Raf. Med. Fl. 1:239. 1828, *nom., iter.* Man. Med. Bot. 239. 1841. North America.
- albiflora Raf. II.cc., *nom.*
- parviflora Raf. II.cc., *descr.*
- HYDRASTIS** Ellis
- †**trifolia** Raf. Herb. Raf. 60. 1833, *nom.*; New Fl. N. Am. 2:34. 1836 [1837], *descr.* Western Kentucky=*H. canadensis* Linn.
- ***MACROTIS** Raf. Act. Soc. Linn. Bordeaux 6:262. 1834, *nom., iter.* Merr. Proc. Am. Philos. Soc. 86:86. 1942=seq.
- MACROTIS** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*; Anal. Nat. Tabl. Univ. 181. 1815, *nom.*; Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.*; op. cit. 91:72. 1820, *nom.*; Ann. Gén. Sci. Phys. 7:18. 1820, *nom.*; Med. Fl. 1:85. 1828, *nom., nota, iter.* Man. Med. Bot. 85. 1841; Act. Soc. Linn. Bordeaux 6:262. 1834, *nom., nota, iter.* Merr. Proc. Am. Philos. Soc. 86:86. 1942=*Cimicifuga* Linn.
- actaeoides** Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Actaea racemosa* Linn.); Jour. Bot. (Paris) 2:170. 1809, *nom.*; A. Gray, Am. Jour. Sci. 40:228. 1841 (*actaeoides*), *nom.*; Eastern United States=*Cimicifuga racemosa* (Linn.) Nutt.
- MACROTIS** Raf. ex DC. Syst. 1:383. 1817 ut sect. *Actaea* Linn.; DC. Prodr. 1:64. 1824, *descr.* (sect. *Actaea* Linn.); Loud. Gard. Mag. 8:246. 1832, *nom.* sub *Actaea*, ut gen., *iter.* Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, *iter.* Britten, Jour. Bot. 38:227. 1900=*praeec.*
- ***MEGOTRIS** Raf. Am. Monthly Mag. Crit. Rev. 4:189. 1819, *nom.*=seq.
- MEGOTRIS** Raf. Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom., nota*=*Macrotrys* Raf.=*Cimicifuga* Linn.
- serpentaria** Raf. l.c., *nom.* (*Cimicifuga serpentaria* Pursh). North America=*Cimicifuga racemosa* (Linn.) Nutt.
- ***MONYPUS** Raf. Anal. Nat. Tabl. Univ. 177. 1815, *nom.* (*Clematis* sp.)=*Clematis* Linn.
- MYOSURUS** Linn.
- shortii** Raf. Am. Jour. Sci. 1:379, *nom.*, 380, *descr.* 1819; Spreng. Neue Entdeck. 2:208. 1821, *descr.*; Isis von Oken 1822, 2:1323. 1822, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Western Kentucky (Hopkinsville)=*Myosurus minimus* Linn.
- PHTIRIUM** Raf. Princ. Somiol. 29. 1814, *nom. nov.* *Delphinium* Linn.
- PLECTORNIS** Raf. Med. Fl. 2:216. 1830, *nom.* sub *Delphinium* Raf.=*Delphinium* Linn.
- ***PLOTHIRIUM** Raf. Fl. Tellur. 1:85. 1836 [1837], *nom. nov.* *Delphinium* Linn.
- PSYCROPHILA** (DC.) Raf. Atl. Jour. 1:144. 1832, *descr.* (*Caltha* Linn. sect. *Psycrophila* DC. Syst. 1:307. 1818)=*Caltha* Linn.
- auriculata** Raf. l.c., *nom.* (*Caltha sagittata* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:164. 1826, *descr.*, non Cav.). Rocky Mountains=*Caltha auriculata* (Raf.) Merr. Jour. Arnold Arb. 29:211. 1948. (*Caltha chionophila* Greene; *C. rotundifolia* Greene, 1899).
- sagittata** Raf. l.c., *nom.* (*Caltha sagittata* Cav.). Falkland Islands.
- PULSATILLA** Linn.=*Anemone* Linn.
- ***cyanea** Raf. Herb. Raf. 38. 1833, *nom.*; Act. Soc. Linn. Bordeaux 6:262. 1834, *nom.* (*Pulsatilla nuttalliana* Spreng.). Upper Missouri (Mandan country)=*Dakota* (*Pulsatilla ludoviciana* (Nutt.) Heller.)
- RANUNCULUS** Linn.
- debilis** Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:225. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 1:359. 1847, *nom.* Pennsylvania.
- flabellaris** Raf. Am. Monthly Mag. Crit. Rev. 2:344. 1818, *nom. nov.* *R. fluviatilis* Bigelow (non Willd.) [*Ranunculus delphinifolius* Torr.; *R. multifidus* Pursh, non Forsk.]. Eastern North America; see Fernald, Rhodora 38:171. 1936.
- †**flamuloides** Raf. in M'Murtrie, Sketch. Louisv. 224. 1819, *nom.*; DC. Prodr. 1:32. 1824, *nom.* (*flamuloides*) in syn. sub *Ranunculus flammula* Linn. var. *arenaria* DC. Kentucky=*R. flammula* Linn.
- leptopetalus** Raf. Fl. Ludovic. 83. 1817, *descr.* (*Renoncule* 4 Robin, Voy. Louis. 3:464. 1807); Seringe Mélang. Bot. 2:70. 1826, *descr.* Louisiana=*R. recurvatus* Poir.
- meganthus** Raf. op. cit. 82, *descr.* (*Renoncule* 2 Robin, Voy. Louis. 3:463. 1807); Seringe, l.c., *descr.* Louisiana.
- ***mutabilis** Raf. Western Minerva 41. 1821, *nom., iter.* Fox, Science II. 12:213. 1900. Kentucky.
- obtusiusculus** Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:225. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* New Jersey (*R. ambigens* S. Wats., 1878; *R. laxicaulis* (Torr. & Gray) Darby, 1841); see Fernald, Rhodora 38:175. 1936.
- †**ovalis** Raf. Précis Découv. Somiol. 36. 1814, *descr.*; Jour. Bot. (Desv.) 4:268. 1814, *descr.* Canada, New York. (*R. rhomboideus* Goldie, 1822); see Fernald, op. cit. 176.
- ***polypetalus** Raf. Fl. Ludovic. 83. 1817, *descr.* (*Renoncule* 3 Rob. Voy. Louis. 3:463. 1807); Seringe, Mélang. Bot. 2:70. 1826, *descr.* Louisiana.
- robini** Raf. op. cit. 82, *descr.* (*Renoncule* 1 (*flamula*) Robin, Voy. Louis. 3:463. 1807); Seringe, l.c., *descr.* Louisiana=? *Ranunculus obtusiusculus* Raf.
- ***setaceus** Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
- ***SARDONULA** Raf. Act. Soc. Linn. Bordeaux 6:262. 1838, *nom. subnud.*, *iter.* Merr. Proc. Am. Philos. Soc. 86:86. 1942, op. cit. 90, *nom.* (Type *Ranunculus pusillus* Poir.)=*Ranunculus* Linn.
- ***SARPEDONIA** Raf. Anal. Nat. Tabl. Univ. 177. 1815, *nom.* (*Ranunculus* sp. Linn.)=*Ranunculus* Linn.
- SCOTANUM** Adans.=*Ranunculus* Linn.
- ***ficaria** Raf. Chloris Aetn. 14. 1815, *nom.* (*Ranunculus ficaria* Linn.; *Ficaria consolida* DC.); Casket. 1827:439. 1 f. 1827; Sat. Eve. Post 6(329):[4]. 1 f. 1827. Sicily.
- ***STAPHISAGRIA** Raf. Med. Fl. 2:216. 1830, *nom.*=*Staphisagria* [Bauhin] DC. Prodr. 1:56. 1824, ut sect. *Delphinium* Linn. (*Staphisagria* Spach 1839)=*Delphinium* Linn.
- STYLURUS** Raf. Fl. Ludovic. 27. 1817, *descr.*, non Salisb. (1809)=*Ranunculus* Linn.
- fistulosus** Raf. op. cit. 28, *descr.* (*Atraphace fistuleux* Rob. Voy. Louis. 3:364. 1807). Louisiana.
- THALICTRUM** Linn.
- pauciflorum** Raf. Atl. Jour. 1:151. 1832, *descr.* Near Lake Ontario=*T. dioicum* Linn.
- ***TRICHYSUS** Raf. Anal. Nat. Tabl. Univ. 177. 1815, *nom.* (*Helleborus* sp.)=*Helleborus* Linn.
- WARNERA** Mill. (1768)=*Hydrastis* Ellis (1759).
- diphylla** Raf. Med. Fl. 1:253. 1828, *iter.* Man. Med. Bot. 253. 1841, *nom. nov. provis.* *Hydrastis canadensis* Linn. Eastern North America.
- tinctoria** Raf. II.cc., *nom. nov. provis.* *Hydrastis canadensis* Linn. Eastern North America.

BERBERIDACEAE

- BERBERIS** Linn.
densiflora Raf. Sylva Tellur. 68. 1838, *descr.* "probably Siberia."
laxa Raf. l.c., *descr.* (*Berberis vulgaris* Linn. var. *iberica* DC.?) "probably from Origen and Siberia"=? *B. chinensis* Hort. ex Poiret.
nigra Raf. op. cit. 67, *descr.* (*Berberis vulgaris* Linn., "var." auct.; *B. orientalis* Tourn.). Turkey.
**orientalis* Tourn. ex Raf. l.c., *nom.* in syn.=*B. nigra* Raf.
pisifera Raf. op. cit. 68, *descr.* Appalachian Mountains of Carolina=*B. canadensis* Mill.
purpurea Raf. op. cit. 67, *descr.* (*Berberis vulgaris* Linn. "var." auct.; *B. innominata* Kielm.). Europe=? *B. vulgaris* Linn.
serrulata Raf. op. cit. 68, *descr.* New England to Carolina=*Berberis vulgaris* Linn.
**DIPHYLLA* Raf. New Fl. N. Am. 4:9. 1836 [1838], *descr.*=*Diphyllea* Michx. (1803).
**cymosa* (Michx.) Raf. var. *trifida* Raf. New Fl. N. Am. 4:9. 1836 [1838], *descr.* Unaka and Cherokee Mountains, North Carolina=*Diphyllea cymosa* Michx. (1803).
ENDOPECTRIS Raf. Fl. Tellur. 3:56. 1836 [1837], *descr.*=*Epimedium* Linn.
tricolor Raf. op. cit. 57, *descr.* (*Epimedium macranthum* Mor. & Decne.; Lindl. Bot. Reg. 22: t. 1906. 1836). Japan.
JEFFERSONIA Barton.
**odorata* Raf. Med. Fl. 2:11. 1830, *descr.*, *sphalm.*=*J. odorata* Raf.=*J. diphylla* (Linn.) Pers.
var. *cespitosa* Raf. l.c., *nom.*
var. *parvifolia* Raf. l.c., *nom.*
var. *undulata* Raf. l.c., *nom.*
**cinata* Raf. Western Rev. Miscel. Mag. 1:93. 1819, *nom.*, *sphalm.*=*Jeffersonia binata* Barton=*J. diphylla* (Linn.) Pers.
**bartoni* Raf. Med. Fl. 2:11. 1830; Loud. Gard. Mag. 8:246. 1832, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, *iter.* Britten, Jour. Bot. 38:227. 1900=*J. bartonis* Michx.=*J. diphylla* (Linn.) Pers.
var. *cespitosa* Raf. Med. Fl. 2:12. 1830, *nom.*
var. *grandiflora* Raf. l.c., *nom.*
var. *rosea* Raf. l.c., *nom.*
var. *undulata* Raf. l.c., *nom.*
**lobata* Raf. l.c., *descr.*; *iter.* Loud. Gard. Mag., Schlecht. Linnaea, et Britten, Jour. Bot. l.c., *nom.* Georgia (An *J. lobata* Nutt. Jour. Acad. Philad. 7:99. 1834?)=*J. diphylla* (Linn.) Pers.
odorata Raf. Med. Fl. 2:11. 1830, *nom.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, *iter.* Britten, Jour. Bot. 38:227. 1900; Herb. Raf. 46, 62. 1833, *nom.* Eastern North America=*J. diphylla* (Linn.) Pers.
**peltata* Raf. Herb. Raf. 46. 1833, *descr.*; Life of Travels 104. 1836, *nom.* Appalachian Mountains of Virginia, Pennsylvania=*J. diphylla* (Linn.) Pers.
†ODOSTEMON Raf. Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.* (*Berberis aquifolium* Pursh; *Berberis nervosa* Pursh); op. cit. 4:188, 189, 192. 1819, *nom.*, *nota* (*Mahonia* Nutt., 1818); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.*, *nota* (*Mahonia* Nutt., 1818); Med. Fl. 2:247. 1830, *nom.* (*Mahonia* Nutt., 1818); Herb. Raf. 51. 1833, *nom.*; Act. Soc. Linn. Bordeaux 6:262. 1834, *nom.*, *nota* (*Mahonia* Nutt., 1818); Sylva Tellur. 69. 1838, *nom.*, *nota* (*Mahonia* Nutt., 1818)=*Mahonia* Nutt. (1818), *nom. conserv.* (*Odostemon* Raf., 1818).
**aquifolium* Raf. Herb. Raf. 51. 1833, *nom.* (*Mahonia aquifolia* Nutt.). Western North America.
PODOPHYLLUM Linn.
callicarpum Raf. Fl. Ludovic. 14. 1817, *descr.* (*Gouet odorant et comestible* Rob. Voy. Louis. 3:332. 1807); Med. Fl. 2:60. 1830, *descr.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, *iter.* Britten, Jour. Bot. 38:227. 1900; Herb. Raf. 46. 1933, *nom.* Louisiana=*Podophyllum peltatum* Linn.
montanum Raf. Med. Fl. 2:59. f. 73. 1830, *descr.*; Loud. Gard. Mag. l.c., *nom.*, *iter.* Schlecht. et Britten, l.c.; Herb. Raf. 46. 1833, *nom.* New York to Virginia=*Podophyllum peltatum* Linn.
var. *acuminatum* Raf. Med. Fl. 2:60. 1830, *nom.*
var. *parviflorum* Raf. l.c., *nom.*

peltatum Linn.; Raf. Med. Fl. 2:59. 1830, *descr.* North America.

var. *elatior* Raf. l.c., *nom.*

extraxillare Raf. l.c., *nom.*

grandiflorum Raf. l.c., *nom.*

heterophyllum Raf. l.c., *nom.*

odoratum Raf. l.c., *nom.*

oligodon Raf. l.c., *nom.*

pumilum Raf. l.c., *nom.*

triphyllum Raf. l.c., *nom.*

**pubescens* Raf. Herb. Raf. 46. 1833, *descr.* Pine barrens of southern New Jersey=*Podophyllum peltatum* Linn.

SCULERIA Raf. Fl. Tellur. 2:52. 1836 [1837], *descr.*=*Vancouveria* Mor. & Decne. (1834).

geminata Raf. l.c., *descr.* (*Epimedium hexandrum* Hook.). Oregon=*Vancouveria hexandra* (Hook.) Mor. & Decne.

VINDICTA Raf. Fl. Tellur. 2:52. 1836 [1837], *descr.*=*Aceranthus* Mor. & Decne. (1837)=*Epimedium* Linn.

begoniifolia Raf. l.c., *descr.* (*Epimedium diphyllum* Lodd. Bot. Cab. 19: t. 1858. 1832; Hook. Bot. Mag. 62: t. 3448. 1835). Japan. (*Aceranthus diphyllus* Mor. & Decne.).

MENISPERMACEAE

- *ADENANDRIA* Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* Quid ?
**ENDECARIA* Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* Quid ?
**HEXAPHORA* Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* Quid ?
OTAMPLIS Raf. New Fl. N. Am. 4:8. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=*Cocculus* DC. (1818), *nom. conserv.* (*Cebatha* Forsk., 1775; *Leaeba* Forsk., 1775; *Epibaterium* Forsk., 1775).
vitifolia Raf. l.c., *descr.* Arkansas and Texas=*Cocculus carolinus* (Linn.) DC. (*Epibaterium carolinum* Britton).
**RITTENASIA* Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* (*Menispermum* sp. Linn.)=*Menispermum* Linn.
WENDLANDIA Willd. 1799 (non Bartl. 1830)=*Cocculus* DC. (1818), *nom. conserv.* (*Cebatha* Forsk., 1775; *Leaeba* Forsk., 1775; *Epibaterium* Forsk., 1775).
**panduroides* Raf. Herb. Raf. 80. 1833, *nom.* Florida or Alabama. Prob.=*Cocculus carolinus* (Linn.) DC.

MAGNOLIACEAE

- *FIGONIA* Raf. Anal. Nat. Tabl. Univ. 177. 1815, *nom.* [*Liriodendron figo* Lour.]=*Michelia* Linn.
LIRIODENDRON Linn.
tulipifera Linn. Eastern United States.
var. *alba acutifolia* Raf. Med. Fl. 2:239. 1830, *nom.*
var. *flava obtusifolia* Raf. l.c., *nom.*=*L. tulipifera* Linn. forma *obtusilobum* Schelle.
MAGNOLIA Linn.
**acuta* Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.* Florida.
**ferruginea* Collins ex Raf. Aut. Bot. 78. 1840, *descr.* Alabama ?
fragrans Raf. Fl. Ludovic. 91. 1817, *descr.* (*Magnolia glauca* Linn., var. *longifolia* Pursh; *Magnolia glauca* sensu Rob. Voy. Louis. 3:481. 1807); Med. Fl. 2:32. 1830, *descr.*; Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], Louisiana, Florida=*Magnolia virginiana* Linn.
**lacunosa* Raf. Aut. Bot. 78. 1840, *descr.* Florida.
**rotundifolia* Raf. l.c., *nom.* alt. *Magnolia ferruginea* Collins. Alabama ?
**OCELLOSIA* Raf. Anal. Nat. Tabl. Univ. 177. 1815, *nom.* Quid ?
**SAMPACCA* Raf. Anal. Nat. Tabl. Univ. 177. 1815, *nom.* [*Sampacca* Rumph. Herb. Amb. 2:199. 1741]=*Michelia* Linn.

ILICACEAE

ILICIUM Linn.

**reticulatum* Raf. Aut. Bot. 86. 1840, *descr.* Florida.

CALYCANTHACEAE

- *CALICANTHUS* Raf. Ann. Gén. Sci. Phys. 5:211. 1820, *nom.*=*seq.*

CALYCANTHUS Linn.

- glaucus Willd.=*C. fertilis* Walt.
var. *heterophylus* Raf. Alsogr. Am. 8. 1838, *descr.* South-eastern United States.
longifolius Raf. l.c., *descr.* Alabama.
*lanceolatus Raf. Herb. Raf. 58. 1833, *nom.* Wasioto or Cumberland Mountains.
mollis Raf. Alsogr. Am. 7. 1838, *descr.* Carolina to Florida=*C. floridus* Linn.
*parviflorus Raf. Herb. Raf. 58. 1833, *nom.* Appalachian Mountains.
reticulatus Raf. Alsogr. Am. 7. 1838, *descr.* (*Calycanthus laevigatus* sensu Pursh; *C. ferax* Michx.). Carolina=*C. fertilis* Walt. var. *laevigatus* (Willd.) Bean.
tomentosus Raf. l.c., *descr.* Alabama, Louisiana=? *C. mohrii* (Small) Pollard.
verrucosus Raf. op. cit. 8, *descr.* Carolina=*C. fertilis* Walt. var. *laevigatus* (Willd.) Bean.
var. *cuneatus* Raf. l.c., *descr.* Appalachian Mountains.
multiflorus Raf. l.c., *descr.* Alabama.
parviflorus Raf. l.c., *descr.* Appalachian Mountains.
*viridiflorus Raf. Herb. Raf. 58. 1833, *nom.* Appalachian Mountains.
CHIMONANTHUS Lindl. (1819) *nom. conserv.* (*Meratia* Loisel., 1818).
parviflorus Raf. Alsogr. Am. 6. 1838, *descr.* [*Calycanthus praecox* Linn. var.]. China, Japan. (*Meratia praecox* Rehd. & Wils.)=*Chimonanthus praecox* (Linn.) Link.

ANNONACEAE

- *AMBOTIA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* (*Annona* sp. Linn.)=*Annona* Linn.
ASIMINA Adans.
*angustifolia Raf. Aut. Bot. 77. 1840, *descr.* Southern Florida.
*arborea Raf. l.c., *descr.* (*Annona glabra* Linn.). Ohio to Louisiana.
incarnata Raf. Med. Fl. 2:197. 1830, *nom.*
*ATANARA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* (*Annona* sp. Linn. [*Atamaram* Rheede=*Annona squamosa* Linn.])=*Annona* Linn.
*CANANGA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* [*Cananga* Rumph. Herb. Amb. 2:195. t. 65. 1741]=*Cananga* Hook. f. & Th. (1855), non Aubl., 1775, *nom. conserv.* (*Canangium* Baill., 1868).
*CHERIMOLIA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* (*Annona* [*cherimolia* Mill.])=*Annona* Linn.
*FUNISARIA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* [*Funis musarius* Rumph. Herb. Amb. 5:78. t. 42. 1747].=*Uvaria* Linn.
*GLYPTOMENES Collins ex Raf. Aut. Bot. 77. 1840, *nom.* sub *Asimina angustifolia* Raf.=*Asimina* Adans. (1763) (*Pityothamnus* Small, 1933).
*MODIRA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.*=?*Annona* Linn.
*NARUMA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* [*Narum* Adans.]=*Uvaria* Linn.
PORCELIA Ruiz & Pavon.
*tribuba Raf. Western Rev. Miscel. Mag. 2:93. 1819, *nom.*, *sphalm.*=*Porcelia triloba* Pers.=*Asimina triloba* Dunal. Eastern North America.

MYRISTICACEAE

- KNEMA Lour.
bicolor Raf. Sylva Tellur. 137. 1838, *descr.*, *nom. nov.* *Knema corticosa* Lour. Indo-China.

MONIMIACEAE

- *DARLUCA Raf. Anal. Nat. Tabl. Univ. 175. 1815, *nom.* Quid ? Ut videtur Monimiaceae.
*HETRIDMUS Raf. Specch. Sci. 1:155. 1814, *nom.* (*Citrosma* sp.); Anal. Nat. Tabl. Univ. 172. 1815, *nom.*; Alsogr. Am. 6. 1838, *nom.*=*Siparuna* Aubl. (1775).

LAURACEAE

- AJOVEA Juss. (1789); Raf. Sylva Tellur. 134. 1838, *descr.*=*Aiouea* Aubl. (1775).
guianensis Raf. Sylva Tellur. 134. 1838 (*Aiouea guianensis* Aubl.; *Laurus hexandra* Sw.). West Indies, Guiana.
BALANOPSIS Raf. Sylva Tellur. 134. 1838, *descr.*, op. cit. 158, *nom.*, *nota*=*Ocotea* Aubl. (1775) (*Mespilodaphne* Nees, 1833).
acuta Raf. l.c., *descr.* Guiana=*Ocotea* vel *Nectandra* sp.
cassia Raf. l.c., *nom.* [*Laurus cassia* Linn.]. Ceylon=*Neolitsea zeylanica* (Linn.) Merr.
*cupularis Raf. l.c., *nom.* (*Laurus cupularis* Lam.). Mascarene Islands=*Mespilodaphne cupularis* Nees=*Ocotea mascarena* (Buchoz) Kosterm.
cupulata Raf. ex Jacks*. Ind. Kew. 1:265. 1893, *sphalm.*=*B. cupularis* Raf.=*Mespilodaphne cupularis* (Lam.) Nees=*praec.*
elliptica Raf. Sylva Tellur. l.c., *descr.* Guiana=*Ocotea* vel *Nectandra* sp.
BRYANTEA Raf. Sylva Tellur. 165. 1838, *descr.*=*Neolitsea* (Benth.) Merr. (1905). (*Litsea* Lam., sect. *Neolitsea* Benth., 1880).
dealbata Raf. l.c., *nom.* (*Tetranthera dealbata* R. Br.). Australia=*Litsea dealbata* (R. Br.) Nees=*Neolitsea dealbata* (R. Br.) Merr. Jour. Arnold Arb. 29:200. 1948.
CAMPHORA Nees (1836); Raf. Sylva Tellur. 135. 1838, *descr.*=*Cinnamomum* Blume (1825).
angustifolia Raf. op. cit. 136, *descr.* Moluccas.
japonica Raf. l.c., *descr.*; Aut. Bot. 85. 1840, *descr.* Japan=? *Cinnamomum camphora* Nees & Eberm.
vera Raf. l.c., *descr.* Borneo, Sumatra=*Cinnamomum parthenoxylon* (Nees) Meissn. vel *Dryobalanops camphora* Colebr. (Dipterocarpaceae).
CINNAMOMUM Blume.
angustifolium Raf. Sylva Tellur. 135. 1838, *descr.* Mindanao, Borneo.
*culiban Raf. l.c., *descr.* (*Laurus culilaban* Linn., 1771). Moluccas=*Cinnamomum culilawan* Blume (*Laurus culitlawan* Linn., 1754); see Merrill. Interpret. Rumph. Herb. Amb. 232. 1917.
*multiflorum Raf. l.c., *descr.* Moluccas.
*CRYPTOCARIA Raf. Sylva Tellur. 135. 1838, *nom.* sub *Endocarpa corymbosa* Raf.=*Cryptocarya* R. Br. (1810).
*CUBEBA Raf. Sylva Tellur. 165. 1838, *descr.*, non *Cubeba* Raf. op. cit. 84=*Litsea* Lam. (1791), *nom. conserv.* (*Malapoenna* Adans., 1763; *Tomex* Thunb., 1783).¹²
piperita Raf. ex Jacks*. Ind. Kew. 1:663. 1893, *sphalm.*=seq.
*piperita Raf. Sylva Tellur. l.c., *descr.* (*Tetranthera piperita* "Sm." [Kostel.]; *Laurus cubeba* Lour.). Indo-China (Annam)=*Litsea cubeba* (Lour.) Pers.; see Merrill, Trans. Am. Philos. Soc. II. 24(2): 166. 1935.
DAMBURNEYA Raf. Sylva Tellur. 136. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Nectandra* Roland (1778), non Berg. (1767), *nom. conserv.* (*Porostema* Schreb., 1791).
maritima Raf. l.c., *descr.* (*Laurus catesbaei* Pers. [*L. catesbyana* Michx.]). Southeastern United States=*Nectandra coriacea* (Sw.) Griseb. (*Ocotea catesbyana* Sarg.).
DECAPENTA Raf. Sylva Tellur. 165. 1838, *descr.*, non Raf. (1834)=*Litsea* Lam. (1791), *nom. conserv.* (*Malapoenna* Adans., 1763; *Tomex* Thunb., 1783).
involuta Raf. l.c. (*Laurus involutata* Koenig; *Tetranthera apetala* Roxb.). India=*Litsea glutinosa* (Lour.) C. B. Rob.
DIPLATHUS Raf. Sylva Tellur. 135. 1838, *descr.*=*Licaria* Aubl. (1775) (*Acrodictium* Nees, 1833).
angulatus Raf. l.c., *descr.* (*Laurus cervantesii* H.B.K.). Mexico=*Licaria cervantesii* (H.B.K.) Kosterm.
ENDOCARPA Raf. Sylva Tellur. 135. 1838, *descr.*=*Aiouea* Aubl. (1775).
corymbosa Raf. l.c., *descr.* (*Cryptocarya dubia* H.B.K.). Colombia=*Aiouea dubia* (H.B.K.) Mez.
EVELYNA Raf. Sylva Tellur. 164. 1838 (non Poepp. & Endl., 1835), *nom. nov.* *Euosmus* Nutt.=*Litsea* Lam. (1791), *nom. conserv.* (*Malapoenna* Adans., 1763; *Tomex* Thunb., 1783).
*diospyros Raf. Aut. Bot. 85. 1840, *nom.* (*Laurus diospyros* Pursh). Florida=*Lindera melissaefolia* (Walt.) Blume (*Benzoin melissaefolium* Nees).

¹² *Glabraria* Linn., 1771 est *Boschia* Korth., 1842 (Bombacaceae).

EVELYNA (continued).

**geniculata* Raf. l.c., nom. (*Laurus geniculata* Michx.). Carolina to Florida=*Litsea geniculata* (Walt.) Nicholson (*Glabraria geniculata* Britton)=*Litsea aestivalis* (Linn.) Fernald, *Rhodora* 47:140. 1945.

EVOSMUS Raf. *Sylva Tellur.* 133. 1838, descr. [*Euosmus* Nutt.]=*Litsea* Lam. (1791), nom. conserv.; vide supra.

HECKERIA Raf. *Sylva Tellur.* 165. 1838, descr. (*Heckera* O. Kuntze)=*Litsea* Lam. (1791), nom. conserv., vide supra.
glomerata Raf. l.c., descr. (*Tetranthera monopetala* Roxb.). India=*Litsea monopetala* (Roxb.) Pers. (*L. polyantha* Juss.).

LAURUS Linn.

angusta Raf. *Sylva Tellur.* 136. 1838, descr. (*Laurus nobilis* Linn., var.). Sicily, Greece=*Laurus nobilis* Linn. var. *salicifolia* Sw.

**aestivalis* Raf. op. cit. 134, nom.=*Laurus aestivalis* Linn.=*Litsea aestivalis* (Linn.) Fernald, *Rhodora* 47:140. 1945, cum. syn.

ludoviciana Raf. *Fl. Ludovic.* 27. 1817, descr. (*Laurier* Rob. Voy. Louis. 3:363. 1807); op. cit. 161, nom., nota; *Sylva Tellur.* 136. 1838, descr.; *Med. Fl.* 2:236. 1830, nom.; *Herb. Raf.* 55. 1833, nom.; *New Fl. N. Am.* 3:95. 1836 [1837], nom. Louisiana. Ex descr.=*Persea borbonia* (Linn.) Pax (*Tamala borbonia* Raf.).

#**MUSTAX** Raf. *Sylva Tellur.* 136. 1838, nom., nota, subgen. *Laurus* Linn. (*Laurus* ? *ludoviciana* Raf.)=*Persea* Mill. (1768; Gaertn. f., 1805), nom. conserv. (*Farnesia* Heist., 1763).

NECTANDRA Roland. ex Rottb.

filiformis Raf. *Sylva Tellur.* 134. 1838, nom. (*Nectandra bijuga* Rottb.; *Laurus surinamensis* Sw.). Guiana=*Ocotea guianensis* Aubl.

OZANTHES Raf. *Sylva Tellur.* 133. 1838, descr.=*Lindera* Thunb. (1783), nom. conserv. (*Benzoin* Fabr., 1763).

benzoin Raf. l.c., descr. (*Laurus benzoin* Linn.); *Aut. Bot.* 85. 1840, nom. Eastern North America=*Lindera benzoin* (Linn.) Blume.

PERSEA Mill. (1768; Gaertn. f., 1805), nom. conserv. (*Farnesia* Heist., 1763).

edulis Raf. *Sylva Tellur.* 134. 1838, nom. (*Laurus persea* Linn.) Tropical America=*Persea americana* Mill.

macrocarpa Raf. *Med. Repos.* II. 5:352. 1808, nom. (*Laurus persea* Linn.); *Jour. Bot. (Paris)* 2:170. 1809, nom.; A. Gray, *Am. Jour. Sci.* 40:228. 1841, nom. Tropical America=*Persea americana* Mill.

RUMPUTRIS Raf. *Fl. Tellur.* 4:92. 1836 [1838], descr.=*Cassytha* Linn.

fasciculata Raf. l.c., descr. (*Cuscuta s. Cussutha indica* Rumph. *Herb. Amb.* 5:491. t. 184. f. 4. 1747). Moluccas=*Cassytha filiformis* Linn.; see Merrill, *Interpret.* Rumph. *Herb. Amb.* 239. 1917.

SASSAFRAS Linn.

rubrum Raf. *Sylva Tellur.* 134. 1838, descr. (*Laurus sassafras* Linn.). Eastern North America=*Sassafras albidum* (Nutt.) Nees (*S. officinale* Nees & Eberm.).

**trilobum* Raf. *Aut. Bot.* 85. 1840, nom. nov. *Laurus sassafras* Linn.=praec.

var. *molle* Raf. l.c., descr. Pennsylvania=*Sassafras albidum* (Nutt.) Nees, var. *molle* (Raf.) Fernald.

SPIRONEMA Raf. *Fl. Tellur.* 4:92. 1836 [1838], descr., nom. nov. *Volutella* Forsk.=*Cassytha* Linn.

aphylla Raf. op. cit. 93, descr. (*Volutella aphylla* Forsk.). Arabia=*Cassytha filiformis* Linn.

TAMALA Raf. *Sylva Tellur.* 136. 1838, descr.; *Good Book* 48. 1840, nom.=*Persea* Mill. (1768; Gaertn. f., 1805), nom. conserv. (*Farnesia* Heist., 1763).

acuminata Raf. op. cit. 137, descr.; *Aut. Bot.* 85. 1840, nom. Louisiana, Texas.

borbonia Raf. op. cit. 136, descr. [*Laurus borbonia* sensu Sw., non Linn.]. West Indies=*Nectandra antillana* Meisn.

carolinensis Raf. l.c., descr.; *Aut. Bot.* 85. 1840, descr. (*Laurus carolinensis* Michx.). Carolina, Florida=*Persea carolinensis* Nees=*Persea borbonia* (Linn.) Spreng.

palustris Raf. op. cit. 137, descr.; *Aut. Bot.* l.c., descr. Carolina, Florida=*Persea pubescens* (Pursh) Sarg.=*P. borbonia* (Linn.) Spreng. forma *pubescens* (Pursh) Fernald, *Rhodora* 47:149. 1945.

**serrulata* Raf. *Aut. Bot.* 85. 1840, descr. Florida.

TETRANTHERA Jacq. (1797)=*Litsea* Lam. (1791), nom. conserv., vide supra.

**chinensis* Raf. *Sylva Tellur.* 165. 1838, nom. (*Litsea chinensis* Lam.). Southern China=*Litsea glutinosa* (Lour.) C. B. Rob.

**involuta* Raf. l.c., nom. (*Laurus involuta* Koenig). India=*Litsea glutinosa* (Lour.) C. B. Rob.

TRIPLOMEIA Raf. *Sylva Tellur.* 134. 1838, descr. (*Triplomeja* O. Kuntze)=*Licaria* Aubl. (1775).

montana Raf. op. cit. 135, nom. (*Laurus triandra* Sw.). West Indies=*Misanteca triandra* Mez (*Acroclidium jamaicense* Nees)=*Licaria triandra* (Sw.) Kosterm.

PAPAVERACEAE

ADLUMIA Raf. *Med. Repos.* II. 5:352. 1808, nom.; *Jour. Bot. (Paris)* 2:169. 1809, nom.; *Am. Monthly Mag. Crit. Rev.* 2:267. 1818, nom., nota (*Corydalis fungosa* Vent.); op. cit. 4:194. 1819, nom., nota (*Corydalis fungosa* Vent.); *Loud. Gard. Mag.* 8:246. 1832, nom., nota, iter. Schlecht. *Linnaea* 8: Lit.-Ber. 70. 1833, iter. Britten, *Jour. Bot.* 38: 227. 1900; *New Fl. N. Am.* 1:64. 1836, descr.; *Fl. Tellur.* 1:16. 1836 [1837], nom.; *Life of Travels* 119. 1836, nom.; *Good Book* 40, 44. 1840, nom.; nom. conserv. (*Bicuculla* Borkh. 1797, non *Bikukulla* Adans., 1763).

cirrhusa Raf. *Med. Repos.* l.c., nom. (*Fumaria fungosa* Ait.; *Fumaria recta* Michx.); *Jour. Bot. (Paris)* 2:169. 1809, nom.; A. Gray, *Am. Jour. Sci.* 40:227. 1841, nom.; *New Fl. N. Am.* 1:65. 1836, descr. Alleghany and Appalachian Mountains=*Adlumia fungosa* (Ait.) Greene.

var. *alba* Raf. *New Fl. N. Am.* l.c., descr.

elator Raf. l.c., descr.

rosea Raf. l.c., descr.

rupestris Raf. l.c., descr.

ARGEMONE Linn.

alba Raf. *Fl. Ludovic.* 83. 1817, descr. (*Argemone* Rob. Voy. Louis. 3:464. 1807); *First Cat. Bot. Gard. Transylv. Univ.* 13. 1824, nom. Louisiana, in gardens, introd. from New Mexico=*Argemone mexicana* Linn. var. *albiflora* DC.

**flava* Raf. *Med. Fl.* 2:195. 1830, nom. nov. *A. mexicana* Linn.

CUCULARIA Raf. *Med. Repos.* II. 5:352. 1808, nom.; *Jour. Bot. (Paris)* 2:169. 1809, nom.=*Dicentra* Bernh. (1833), nom. conserv. (*Bikukulla* Adans., 1763; *Capnorchis* Borkh., 1797; *Diclytra* Borkh. 1797; *Dielytra* Cham. & Schlecht. 1826).

bulbosa Raf. l.c., nom. (*Fumaria cucullaria* Linn.); A. Gray, *Am. Jour. Sci.* 40: 227. 1841, nom. Eastern North America=*Dicentra cucullaria* (Linn.) Bernh.

DICLYTHRA Raf. *First Cat. Bot. Gard. Transylv. Univ.* 13. 1824, nom. (*Corydalis* Linn.)=*Diclytra* Borkh. (1797)=*Dicentra* Bernh. (1833), nom. conserv., vide supra.

**divaricata* Raf. l.c., nom. Kentucky.

DICLYTRA Borkh. (1797)=*Dicentra* Bernh. (1833), nom. conserv., vide supra.

divaricata Raf. ex Jacks*. *Ind. Kew.* 1:752. 1893. Kentucky

***ELSHOTZIA** Raf. *Aut. Bot.* 13. 1840, nom. sub *Omonoia californica* Raf.=*Eschscholzia Chamisso* (1820).

FUMARIA Linn.

flavula Raf. *Med. Repos.* II. 5:358. 1808, descr.; *Jour. Bot. (Paris)* 1:224. 1809, descr.; *Am. Monthly Mag. Crit. Rev.* 1:357. 1817, nom. sub *Corydalis aurea* Michx. Eastern North America=*Corydalis flavula* (Raf.) DC. (*Capnodes flavulum* O. Kuntze).

GLAUCIUM Mill.

**rupestre* Raf. *Herb. Raf.* 66. 1833, nom. Appalachian Mountains.

MARZARIA Raf. *Aut. Bot.* 14. 1840, descr.; Pennell, *Bull. Torr. Bot. Club* 48:92. 1921, nom.=*Macleaya* R. Br. (1826).

cordata Raf. l.c., descr.; Pennell l.c., nom. (*Bocconia cordata* Willd.). Asia=*Macleaya cordata* (Willd.) R. Br.

ODOPTERA Raf. *First Cat. Bot. Gard. Transylv. Univ.* 15. 1824, nom.=*Corydalis* Medic. (1789), nom. conserv. (*Capnoides* Adans., 1763; *Cisticapnos* Adans., 1790; *Neckeria Scop.* 1777).

aurea Raf. l.c., nom. (*Corydalis [aurea]* Willd.). Eastern North America.

OMONOIA Raf. *Fl. Tellur.* 2:92. 1836 [1837], nom. nov. *Eschscholzia Chamisso*; op. cit. 4:121. 1836 [1838], nom., nota (*Chryseis* Lindl.); *Good Book* 40. 1840, nom. (*Chryseis* Lindl.)=*Eschscholzia Chamisso* (1820).

- californica* Raf. Fl. Tellur. 2:92. 1836 [1837], *descr.* (*Eschscholzia californica* Chamisso; Lindl. Bot. Reg. 14: t. 1168. 1828 (*Eschscholtzia*); Hook. Bot. Mag. 56: t. 2887. 1829); Aut. Bot. 13. 1840, *nom.* California=*Eschscholzia californica* Chamisso.
- SANGUINARIA** Linn.
canadensis Linn. Eastern North America.
 var. *cespitosa* Raf. Med. Fl. 2:79. 1830, *nom.*; Casket 1831:43. 1831, *nom.*
multipetala Raf. l.c., *descr.*
parviflora Raf. l.c., *nom.*
reniformis Raf. l.c., *nom.*
repens Raf. l.c., *nom.*
stenopetala Raf. l.c., *descr.*

CRUCIFERAE

- ACUSTON** Raf. Sylva Tellur. 131. 1838, *descr.*=*Farsetia Turra* (1765).
clypeatum Raf. l.c., *descr.* (*Alyssum clypeatum* Linn.; *Lunaria canescens* Willd.). Southern Europe, Asia Minor=*Farsetia clypeata* (Linn.) R. Br.
lunarioides Raf. l.c., *descr.* (*Alyssum lunarioides* Willd.; *Farsetia lunarioides* R. Br.; Hook. Bot. Mag. 58: t. 3087. 1834; *Lunaria graeca* Willd.). Greece=*Farsetia lunarioides* (Willd.) R. Br.
- ALYSSUM** Linn.
 †*gracile* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.
- ARABIS** Linn.
mollis Raf. Am. Monthly Mag. Crit. Rev. 2:43. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.*, non Stev. (1812). New York=*Arabis canadensis* Linn.
 †*parviflora* Raf. op. cit. 1:359. 1817, *nom.* (*Arabis thaliana* sensu Barton); op. cit. 2:43. 1817, *descr.* (*Arabis thaliana* sensu Pursh); Fl. Ludovic. 169. 1817, *nom.*; Am. Jour. Sci. 1:80. 81. 1818, *nom.*; Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom.* (*A. thaliana* sensu Nutt.); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.*, *nota* (*Arabis thaliana* auctt.). New York, New Jersey, Pennsylvania=*Sisymbrium thalianum* (Linn.) J. Gay.
 †*rotundifolia* Raf. Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.*, *nota*; op. cit. 2:43. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.*; Am. Jour. Sci. 1:80. 1818, *nom.* New Jersey=*Draba caroliniana* Walt.
- ***ARCHIMEDIA** Raf. Anal. Nat. Tabl. Univ. 180. 1815, *nom.* (*Iberis* sp. Linn.)=*Iberis* Linn.
- ***BISCUTELA** Raf. Aut. Bot. 10. 1840, *nom.*=*Biscutella* Linn.
 **pilosa* Raf. l.c., *descr.* Arkansas.
 **raphanifolia* Raf. l.c., *nom.* Mediterranean region=*Biscutella raphanifolia* Poir.
- #**BRACHYLOBUM** Raf. Med. Fl. 2:40. 1830, *nom.*, *nota*, subgen. *Nasturtium* R. Br. (Type, *Nasturtium tuberosum* Raf.).
- BRASSICA** Linn.
crispa Raf. Specch. Sci. 2:70. 1814, *descr.* Sicily.
floridana Raf. Atl. Jour. 1:147. 1832, *descr.* Florida.
montana Raf. Specch. Sci. 2:69. 1814, *descr.* Sicily.
rupestris Raf. Car. Nuov. Gen. Sp. Sicil. 77. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.* Sicily.
- BUNIAS** Linn.
americana Raf. Med. Fl. 2:202. 1830, *nom.* (*Bunias cakile* sensu Schoepf, Mat. Med. Am. 105. 1787; "*Bunias maritima*" [*Cakile americana* Nutt.])=*Cakile edentula* (Bigel.) Hook.
 **maritima* Raf. l.c., *nom.*, *sphalm.* [*Cakile maritima* auct. Am.]=*Cakile edentula* (Bigel.) Hook.
- ***CAPRELLA** Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom.*, *sphalm.*=*seq.*
- CAPSELLA** Medic. (1792), *nom. conserv.* (*Bursa* Weber, 1780; *Marsypocarpus* Neck., 1790).
acutifolia Raf. New Fl. N. Am. 2:27. 1836 [1837], *descr.* Alleghany Mountains=*C. bursa-pastoris* (Linn.) Medic.
ambloides Raf. op. cit. 28, *descr.* Europe=*C. bursa-pastoris* (Linn.) Medic.
bifida Raf. l.c., *descr.* Pennsylvania=*C. bursa-pastoris* (Linn.) Medic.
 †*bursa* Raf. Am. Jour. Sci. 1:80. 1818, *nom.* (*Thlaspi bursa-pastoris* Linn.); New Fl. N. Am. 2:27, *nom.*, 28, *descr.*, 1836 [1837]. (*Thlaspi bursa-pastoris* Linn.). Europe, North America=*Capsella bursa-pastoris* (Linn.) Medic.

- dentata* Raf. New Fl. N. Am. 2:28. 1836 [1837], *descr.* Alleghany Mountains=*C. bursa-pastoris* (Linn.) Medic.
furcata Raf. l.c., *descr.* Europe, Canada=*C. bursa-pastoris* (Linn.) Medic.
integrifolia Raf. op. cit. 27, *descr.* Pennsylvania, Kentucky=*C. bursa-pastoris* (Linn.) Medic.
- CARDAMINE** Linn.
angustifolia Raf. Fl. Ludovic. 84. 1817, *descr.* (*Cardamine* 3 Rob. Voy. Louis. 3:466. 1807). Louisiana.
 **allotoma* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.
 **debilis* Raf. op. cit. 68, *nom.* Alleghany Mountains.
 **gracilis* Raf. l.c., *nom.* Alleghany Mountains.
 **pectinata* Raf. Herb. Raf. 62. 1833, *nom.* alt. *Cardamine precox* Raf. Kentucky or Illinois.
 **precox* Raf. l.c., *nom.* Kentucky or Illinois.
reflexa Raf. Fl. Ludovic. 84. 1817, *descr.* (*Cardamine* 2 Rob. Voy. Louis. 3:466. 1807). Louisiana.
- CHEIRANTHUS** Linn.
 **fasciculatus* Raf. Chloris Aetn. 4. 1815, *nom.* Sicily.
 **rupestris* Raf. l.c., *nom.* Sicily=? *C. rupestris* Sibth. & Sm.
- CRUCIUNDULA** Raf. Fl. Tellur. 2:100. 1836 [1837], *descr.*=*Thlaspi* Linn.
minima Raf. l.c., *descr.* (*Thlaspi minimum* Ard. Anim. Bot. Spec. 2: t. 15. 1764; *Iberis stylosa* Tenore; *Hutchinsia stylosa* DC.; Hook. Bot. Mag. 54: t. 2772. 1827). Southern Italy=*Thlaspi minimum* Ard.
- DENTARIA** Linn.
 **grandiflora* Raf. Herb. Raf. 47. 1833, *descr.* "Oregon [Rocky] Mts. and territory, Walton in 1822" (*D. macrocarpa* Nutt., 1838; *Cardamine pulcherrima* Greene, 1893); see Fernald, *Rhodora* 48:12. 1946.
 †*parvifolia* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*; Ann. Nat. Ann. Synop. 12. 1820, *descr.* Western Pennsylvania.
- #**DESCURIA** Raf. Fl. Ludovic. 84. 1817, *descr.*, sect. *Sisymbrium* Linn. (Type *S. leptapetalon* Raf.).
- DILEPTIUM** Raf. Fl. Ludovic. 85. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.* (*Lepidium virginicum* Linn.); op. cit. 4:194. 1819, *nom.* (*Lepidium virginicum* Linn.); Med. Fl. 2:237. 1830, *nom.*; Act. Soc. Linn. Bordeaux 6:263. 1834, *nom.*, *nota*=*Lepidium* Linn.
- diffusum* Raf. Fl. Ludovic. 85. 1817, *descr.* (*Cochlearia* 3 Rob. Voy. Louis. 3:467. 1807); Med. Fl. 2:237. 1830, *nom.* Louisiana=*Lepidium virginicum* Linn.
precox Raf. op. cit. 86, *descr.* (*Cochlearia* 2, Rob. op. cit. 267). Med. Fl. 2:237. 1830, *nom.* Louisiana=? *prae.*
- virginicum* Raf. ex Jacks*. Ind. Kew. 1:759. 1893 (*Lepidium virginicum* Linn.). North America.
- DISCOVIUM** Raf. Jour. Phys. Chim. Hist. Nat. 89:96. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 236. 1820, *descr.*=*Lesquerella* S. Wats. (1888).
- **calcareum* Raf. Herb. Raf. 38. 1833, *nom.* (*Myagrum argenteum* Pursh). Upper Missouri (Mandan country)=*Dakota*.=*Lesquerella argentea* (Pursh) MacMill. (*Lesquerella ludoviciana* S. Wats.).
- gracile* Raf. Jour. Phys. Chim. Hist. Nat. 89:96. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 236. 1820, *descr.* Ohio River=? *Lesquerella globosa* (Desv.) S. Wats.
- **ohiense* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Herb. Raf. 61. 1833, *nom.*; Aut. Bot. 17. 1840, *nom.*, *nota*. Ohio River near Gallipolis=? *Lesquerella globosa* (Desv.) S. Wats.
- **ohioense* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:450. 1878, *nom.* in syn.=*prae.*
- ohiotense* Raf. ex DC. Syst. Nat. 2:700. 1821, *descr.* Ohio River near Gallipolis=*prae.*
- DISYNOMA** Raf. Fl. Tellur. 3:81. 1836 [1837], *descr.*=*Aethionema* R. Br. (1812).
carnea Raf. l.c., *descr.* (*Thlaspi carneum* [Soland. ex] Russell Nat. Hist. Aleppo, ed. 2, 257. t. 11. f. 2. 1794). Syria and Anatolia=*Aethionema carneum* (Soland.) Fedtsch. (*A. cristatum* DC.).
- ERYSIMUM** Linn.
angustifolium Raf. Atl. Jour. 1:154. 1832, *descr.* (*E. cheiranthoides* sensu Pursh). Maryland=*E. cheiranthoides* Linn.
- EUDISTEMON** Raf. Med. Fl. 2:219. 1830, *nom.*, *nota* (*Cochlearia coronopus* sensu Schoepf); Act. Soc. Linn. Bordeaux 6:263. 1834, *nom.*, *nota* (*Coronopus didymus* auct. Am.); Herb. Raf. 80. 1833, *nom.*, *nota* (*Coronopus didymus* sensu Nutt., Ell.)=*Coronopus* Gaertn. (1791) (*Senebiera* DC. 1791; *Carara* Medic. 1792).

EUDISTEMON (*continued*).

**humifusum* Raf. Herb. Raf. 80. 1833, *nom.* Florida or Alabama.

FARSETIA Turra.

incana Raf. Aut. Bot. 11. 1840, *nom.* (*Cheiranthus farsetia* Linn.; *Farsetia aegyptiaca* Desf.; *Lunaria scabra* Forsk.). Egypt, Arabia=*Farsetia aegyptia* Turra.

***GAMBLUM** Raf. Sylva Tellur. 131. 1838, *nom.*, *sphalm.*=*Gansblum* Adans. (1763)=*Draba* Linn.

#**GRAMILIA** Raf. Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.*, *nota*, subgen. *Draba* Linn. (*D. arabisans* sensu Pursh).

HESPERIS Linn.

**estiva* Raf. First Cat. Bot. Gard. Transylv. Univ. 21. 1824, *nom.*=*H. aestiva* Lam.

fasciculata Raf. Speech. Sci. 2:46. 1814, *descr.* Sicily=*Matthiola fasciculata* (Raf.) DC.

rupestris Raf. l.c., *descr.* Sicily=*Matthiola incana* (Linn.) R. Br.

IBERIS Linn.

candicans Raf. Atl. Jour. 1:146. 1832, *nom.* (*Iberis* ? sp. Torr. Ann. Lyceum. Nat. Hist. N. Y. 2:166. 1827, *descr.*). Rocky Mountains or adjacent plains.

IONDRA Raf. Aut. Bot. 11. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:91. 1921, *nom.*=*Aethionema* R. Br. (1812)

arabica Raf. l.c., *nom.* (*Thlaspi arabica* Vahl [*Iberis arabica* Linn.]); Pennell, l.c., *nom.*, *nota*. Arabia, Palestine, Egypt =*Aethionema arabicum* (Linn.) Andrz.

KERNERA Medic.=*Cochlearia* Linn.

**cuneifolia* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.

**sagittata* Raf. l.c., *nom.* Kentucky or Illinois.

NASTURTIUM R. Br.

**arcuatum* Raf. Med. Fl. 2:40. 1830, *nom.* Central Western United States.

**diffusum* Raf. l.c., *nom.* Central Western United States.

†*nebrodense* Raf. Précis Découv. Somiol. 38. 1814, *descr.*; Jour. Bot. (Desv.) 4:270. 1814, *descr.* Sicily.

rotundifolium Raf. Fl. Ludovic. 86. 1817, *descr.* (*Cochlearia* 4 Rob. Voy. Louis. 3:467. 1807). Louisiana.

tuberosum Raf. op. cit. 84, *descr.* (*Cochlearia* 1 Rob. Voy. Louis. 3:466. 1807); Med. Fl. 2:40. 1830, *nom.*, *nota*. Louisiana.

***OCLOROSIS** Raf. Act. Soc. Linn. Bordeaux 6:263. 1834, *nom.*, *nota*, iter. Merr. Proc. Am. Philos. Soc. 86:86. 1942, op. cit. 90, *nom.* (Type *Hesperis pinnatifida* Michx.=*Iodanthus pinnatifidus* Steud.). North America=*Iodanthus* Torr. & Gray (1838).

OPIZIA Raf. New Fl. N. Am. 2:29. 1836 [1837] sub *Capsella bursa* Raf., *descr.*, non Presl (1830)=*Capsella* Medic. (1792), *nom. conserv.* (*Bursa* Weber, 1780; *Marsypocarpus* Neck., 1790).

bursoides Raf. l.c., *nom.* (*Capsella bursa-pastoris* Medic. f. *apetala* Opiz). Europe.

PACHILA Raf. Loud. Gard. Mag. 8:246. 1832, *nom. nov.* *Erucaria* Gaertn., iter. Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, iter. Britten, Jour. Bot. 38:227. 1900=*Erucaria* Gaertn. (1791).

#**PLAGIDON** Raf. Sylva Tellur. 131. 1838, *descr.*, *nom. nov. provis.*, subgen. *Acuston* Raf. (Type *Alyssum clypeatum* Linn.; *Lunaria canescens* Willd.)=*Farsetia* Turra (1765).

***PLATYLOMA** Raf. Herb. Raf. 50. 1833, *nom. subnud.* Quid ?

**simplex* Raf. l.c., *nom.* Rocky Mountains or Oregon.

PODOLOBUS Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom. nov. provis.* *Stanleya* Nutt.; Herb. Raf. 38. 1833, *nom.* (*Stanleya* Nutt.); Act. Soc. Linn. Bordeaux 6:263. 1834, *nom.* (*Stanleya* Nutt.); Sylva Tellur. 113. 1838, *descr.* (*Stanleya* Nutt.); New Fl. N. Am. 4:15. 1836 [1838], *nom.* (*Stanleya* Nutt.)=*Stanleya* Nutt. (1818).

**pinnatifidus* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* (*Stanleya pinnatifida* Nutt.); Sylva Tellur. 113. 1838, *nom.* (*Stanleya pinnatifida* Nutt.). North America.

PRISCIANA Raf. Sylva Tellur. 114. 1838, *descr.*=*Heliophila* Burm. f. (1763).

capensis Raf. l.c., *nom.* (*Cleome capensis* Linn.). South Africa=*Heliophila capensis* (Linn.) O. Kuntze (*H. callosa* DC.).

SEMETUM Raf. Aut. Bot. 17. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* Ex *descr.*=*Lepidium* Linn.

ramosum Raf. l.c., *descr.*; Pennell, l.c., *nom.* Florida=? *Lepidium virginicum* Linn.

SHORTIA Raf. Aut. Bot. 16. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.*=*Arabis* Linn.

dentata Raf. op. cit. 17, *nom.* (*Arabis dentata* Torr. & Gray; *Draba dentata* Hook. & Arn.; *Sisymbrium dentatum* Torr.); Pennell, l.c., *nom.* Eastern North America=*Arabis dentata* (Torr.) Torr. & Gray, et, quoad syn. Hook. & Arn., *Draba ramosissima* Desf.

SINAPIS Linn.

crassifolia Raf. Car. Nuov. Gen. Sp. Sicil. 78. 1810, *descr.*, Stat. Gen. Sicil. 28. 1810, *nom.* Sicily.

SISYMBRIUM Linn.

**diffusum* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* Kentucky.

leptopetalon Raf. Fl. Ludovic. 84. 1817, *descr.* (*Cardamine* 1 Rob. Voy. Louis. 3:466. 1807). Louisiana.

TOMOSTOMA Raf. Neogen. 2. 1825, *descr.*=*Draba* Linn.

caroliniana Raf. ex Jacks*. Ind. Kew. 2:1087. 1895 (*Draba caroliniana* Walt.). Eastern North America.

hispidula Raf. ex Jacks*. l.c. (*Draba hispidula* Michx.) Eastern North America=*Draba caroliniana* Walt.

TURRITIS Linn.=*Arabis* Linn.

**cespitosa* Raf. Chloris Aetn. 9. 1815, *nom.* Sicily.

**hispidula* Raf. l.c., *nom.* Sicily.

lyrata Raf. Am. Monthly Mag. Crit. Rev. 2:44. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.* New York (Catskill Mountains)=*Arabis laevigata* (Muhl.) Poir.

oblongata Raf. l.c., *descr.*, *nom.* New York (Newburgh)=*Arabis hirsuta* (Linn.) Scop.

VESICARIA Adans.

**cuneifolia* Raf. Herb. Raf. 60. 1833, *nom. alt.* *Kernera cuneifolia* Raf. Kentucky or Illinois.

**sagittata* Raf. l.c., *nom. alt.* *Kernera sagittata* Raf. Kentucky or Illinois.

CAPPARIDACEAE

ARIVELA Raf. Sylva Tellur. 110. 1838, *descr.*=*Polanisia* Raf. (1818).

viscosa Raf. l.c., *nom.* (*Cleome viscosa* Linn.). Old World Tropics=*Polanisia icosandra* (Linn.) Wight & Arn. (*P. viscosa* DC.).

***ATALANTA** Raf. Sylva Tellur. 113. 1838, *descr. est* *Atalanta* Nutt. (1818)=*Cleome* Linn.

**serrulata* Raf. l.c., *descr.* (*Cleome serrulata* Pursh) est *A. serrulata* Nutt. (1818). Missouri=*Cleome serrulata* Pursh.

AUBION Raf. Sylva Tellur. 110. 1838, *descr.*=*Cleome* Linn.

chelidoni Raf. l.c., *descr.* (*Cleome chelidonii* Linn.). India.

CAPPARIS Linn.

obtusa Raf. Sylva Tellur. 109, *nom. sub* *Gynophalis* Raf. (*Capparis cynocephalophora* Linn.). Tropical America.

CLEOME Linn.

edulis Raf. Fl. Ludovic. 86. 1817, *descr.* (*Mozambe comestible* Rob. Voy. Louis. 3:468. 1807); op. cit. 135, *nom.*, *nota*; Med. Fl. 2:211. 1830, *nom.* Louisiana=seq.

**lupinifolia* Bartr. Travels 425. 1791, *nom.*, *nota*; Raf. Fl. Ludovic. 135. 1817, *nom.*, *nota*. Louisiana=? *Gynandropsis gynandra* (Linn.) Briq.

speciosa Raf. Fl. Ludovic. 10, *nom.*, 86, *descr.*, 1817. (*Mozambe lilas* Rob. Voy. Louis. 3:469. 1807). Louisiana, cult., e Mexico.

COALISIA Raf. ex Jacks*. Ind. Kew. 1:572. 1893, *sphalm.*=seq.

angustifolia Raf. ex Jacks*. l.c. (*Coalasina angustifolia* Raf.). Egypt.

***COALISINA** Raf. Sylva Tellur. 114. 1838, *descr.*=*Cleome* Linn.

**angustifolia* Raf. l.c., *nom.* (*Cleome angustifolia* Forsk.). Egypt.

***CRISTELLA** Raf. Sylva Tellur. 112. 1838, *nom. sub* *Dispara* Raf.=*Cristatella* Nutt. (1834) (*Cyrbasium* Endl., 1839).

DIORIMASPERMA Raf. Sylva Tellur. 111. 1838, *descr.*=*Cleome* Linn.

violacea Raf. l.c., *nom.* (*Cleome violacea* Linn.). Portugal ?

DISPARA Raf. Sylva Tellur. 112. 1838, *descr.*, *nom. nov.* *Cristatella* Nutt.; Good Book 40. 1840, *nom.*=*Cristatella* Nutt. (1834) (*Cyrbasium* Endl., 1839).

filiformis Raf. Sylva Tellur. 113. 1838. *descr.* (*Cristatella erosa* Nutt.). Oregon.

#**GYNOPHALIS** Raf. Sylva Tellur. 109. 1838, *descr.* subgen. *Pleuteron* Raf. (Type *Capparis flexuosa* Linn.)=*Capparis* Linn.

- HEMISCOLA** Raf. Sylva Tellur. 111. 1838, *descr.*=*Cleome* Linn.
aculeata Raf. l.c., *nom.* (*Cleome aculeata* Linn.). Tropical America.
ornithopoides Raf. l.c., *nom.* (*Cleome ornithopodioides* Linn.). Asia Minor, Persia.
***HYPONEMA** Raf. Good Book 40. 1840, *nom. nov.* *Cleomella* DC.
INTUTIS Raf. Sylva Tellur. 108. 1838, *descr.*=*Capparis* Linn.
amygdalina Raf. l.c., *descr.* (*Capparis amygdalina* Lam.). South America.
ferruginea Raf. l.c., *descr.* (*Capparis ferruginea* Linn.; *C. octandra* Jacq.). West Indies and Guiana.
***ISEXIMA** Raf. Sylva Tellur. 112. 1838, *nom. sub* *Marsesina* Raf., *sphalm.*=seq.
ISEXINA Raf. Sylva Tellur. 112. 1838, *descr.*=*Cleome* Linn.
aurea Raf. l.c., *descr.* (*Peritoma aureum* Nutt.). Oregon=*Cleome lutea* Hook.
ISOPARA Raf. Atl. Jour. 1:144. 1832, *nom. nov.* *Cleomella* DC.
mexicana Raf. l.c., *nom.* (*Cleomella mexicana* Moç. & Sessé). Mexico.
JACKSONIA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.*, *nota*, non R. Br. (1811)=*Polanisia* Raf. (1818, 1819).
trifoliata Raf. Med. Repos. et Jour. Bot. II.cc., *nom.*; A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.* (*Cleome dodecandra* sensu auct. Am., non Linn.). Eastern North America=*Polanisia graveolens* Raf.
LAGANSA Raf. Sylva Tellur. 110. 1838, *descr.*=*Polanisia* Raf.
alba Raf. l.c., *nom.* [*Lagansa alba* Rumph. Herb. Amb. 5: 280. t. 96. f. 3. 1747]=*Polanisia icosandra* (Linn.) Wight & Arn.; see Merrill, Interpret. Rumph. Herb. Amb. 240. 1917.
MARSESINA Raf. Sylva Tellur. 112. 1838, *descr.*=*Capparis* Linn.
MELIDISCUS Raf. Sylva Tellur. 110. 1838, *descr.*=*Cleome* Linn.
gigantea Raf. l.c., *descr.* (*Cleome gigantea* Linn.; Bot. Mag. 59: t. 3137. 1832; *C. viridiflora* Schreb.). South America.
MITOSTYLIS Raf. Sylva Tellur. 114. 1838, *descr.*=*Cleome* Linn.
procumbens Raf. l.c., *descr.* (*Cleome procumbens* Jacq.). West Indies.
MOZAMBE Raf. Sylva Tellur. 112. 1838, *descr.*=*Cadaba* Forsk. (1775).
levigata Raf. l.c., *nom.* (*Cleome fruticosa* Linn.). India=*Cadaba fruticosa* (Linn.) Druce (*C. indica* Lam.).
NEVOSMILA Raf. Sylva Tellur. 107. 1838, *descr.*=*Crataeva* Linn.
arborea Raf. l.c., *descr.* (*Crataeva gynandra* Linn.). West Indies.
OCTANEMA Raf. Sylva Tellur. 112. 1838, *descr.*=*Capparis* Linn.
angustifolia Raf. l.c., *nom.* [*Capparis angustifolia* H.B.K.]. Mexico.
crotonoides Raf. l.c., *nom.* [*Capparis crotonoides* H.B.K.]. Colombia.
incana Raf. l.c., *nom.* [*Capparis incana* H.B.K.]. South America.
scabrida Raf. l.c., *nom.* [*Capparis scabrida* H.B.K.]. South America.
OLIGLORON Raf. Sylva Tellur. 109. 1838, *descr.*=*Capparis* Linn.
zeylanica Raf. l.c., *nom.* (*Capparis zeylanica* Linn.). Ceylon.
OLOFUTON Raf. Sylva Tellur. 108. 1838, *descr.*=*Capparis* Linn.
racemosum Raf. l.c., *descr.* (*Capparis cantoniensis* Lour.). Southern China=*Capparis cantoniensis* Lour. (*C. pumila* Champ.; *C. sciaphila* Hance); see Merrill, Trans. Am. Philos. Soc. II. 24(2):173. 1935.
ONCUFIS Raf. Sylva Tellur. 114. 1838, *descr.*, *nom. nov. provis.* sub *Mitostylis* Raf. (Type *Cleome guianensis* Aubl.)=*Cleome* Linn.
PERICLA Raf. Sylva Tellur. 112. 1838, *descr.*=*Cleome* Linn.
imbricata Raf. l.c., *descr.* (*Peritoma "simplicifolia" sphalm.*=*Peritoma integrifolium* Nutt.). Oregon=*Cleome integrifolia* (Nutt.) Torr. & Gray.
PERITOMA DC.=*Cleome* Linn.
luteum Raf. ex Jacks*. Ind. Kew. 2:472. 1894 (*Cleome lutea* Hook.). North America.
**simplicifolium* Raf. Sylva Tellur. 112. 1838, *nom. sub* *Pericla imbricata* Raf., *sphalm.*=*Peritoma integrifolium* Nutt.=*Cleome integrifolia* (Nutt.) Torr. & Gray.
***PEUTERON** Raf. Sylva Tellur. 112. 1838, *nom.*, *sphalm.*=seq.
PLEUTERON Raf. Sylva Tellur. 109. 1838, *descr.*, *nom. nov.* *Breynia* Plumier (1703); Linn. (1753), non J. R. & G. Forst. (1776)=*Capparis* Linn.
baduca Raf. l.c., *nom.* (*Capparis baducca* Linn.). West Indies, South America.
breynia Raf. l.c., *nom.* (*Capparis breynia* Linn.). South America.
comosa Raf. l.c., *nom.* (*Capparis comosa* Jacq.). Santo Domingo.
frondosa Raf. l.c., *nom.* (*Capparis frondosa* Jacq.). South America=*Capparis baducca* Linn.
hastata Raf. l.c., *nom.* (*Capparis hastata* Jacq.). South America.
linearis Raf. l.c., *nom.* (*Capparis linearis* Jacq.). West Indies.
siliquosa Raf. l.c., *nom.* (*Capparis siliquosa* Linn.). West Indies.
tenuis Raf. l.c., *nom.* (*Capparis tenuisiliqua* Jacq.). Colombia.
torulosa Raf. l.c., *nom.* (*Capparis torulosa* Sw.). West Indies.
***PODANISIA** Raf. Herb. Raf. 60. 1833, *nom.*, *sphalm.*=*Polanisia* Raf. (1818).
**graveolens* Raf. l.c., *nom.* Kentucky=*Polanisia graveolens* Raf.
***POLANINA** Raf. Western Rev. Miscel. Mag. 2:93. 1819, *nom.*, *sphalm.*=*Polanisia* Raf. (1818).
**graveolens* Raf. l.c., *nom.* Kentucky=*Polanisia graveolens* Raf.
†POLANISIA Raf. Fl. Ludovic. 167. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.*, *nota* (*Cleome dodecandra*, sensu auct. Am.); op. cit. 4:188, 207. 1819, *nom.*; Am. Jour. Sci. 1:378. 1819, *descr.*; Jour. Phys. Chim. Hist. Nat. 89:98. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 238. 1820, *descr.*; op. cit. 1822, 2:1322. 1822, *descr.*; Spreng. Neue Entdeck. 2:208. 1821, *nom.*; Good Book 40. 1840, *nom.*
graveolens Raf. Am. Jour. Sci. 1:379. 1819, *descr.* (*Cleome dodecandra* sensu Michx.); Jour. Phys. Chim. Hist. Nat. 89:98. 1819, *nom.* (*Cleome dodecandra* sensu Michx.); Isis von Oken 1820, 1: Lit. Anz. 238. 1820, *nom.* (*Cleome dodecandra* sensu Michx.); op. cit. 1822, 2:1323. 1822, *descr.* (*Cleome dodecandra* sensu Michx.); First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* (*Cleome dodecandra* auctt.); Med. Fl. 2:61. f. 74. 1830, *descr.*; Fl. Tellur. 1:42. 1836 [1837], *nom.* North America.
var. cespitosa Raf. Med. Fl. 2:62. 1830, *nom.*
elator Raf. l.c., *descr.*
glabriuscula Raf. l.c., *nom.*
simplex Raf. l.c., *nom.*
POLANYISIA Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom.*, *nota*=*Polanisia* Raf.
***POTAMISIA** Raf. ex M'Murtrie, Sketch. Louisv. 224. 1819, *nom.*, *sphalm.*=*Polanisia* Raf. (1818).
**graveolens* Raf. l.c., *nom.* Kentucky=*Polanisia graveolens* Raf.
SCHEPERIA Raf. Sylva Tellur. 109. 1838, *descr.*=*Scheperia* Neck. (1793)=*Cadaba* Forsk. (1775).
junceae Raf. l.c., *nom.* (*Cleome juncea* Linn.). Africa=*Scheperia juncea* DC.=*Cadaba juncea* (Linn.) Harv.
SCOLOSPERMA Raf. Sylva Tellur. 111. 1838, *descr.*=*Cleome* Linn.
dendroides Raf. l.c., *descr.* (*Cleome dendroides* Schultes; Hook. Bot. Mag. 61: t. 3296. 1834). Brazil.
SIERUELA Raf. Sylva Tellur. 112. 1838, *descr.* (*Aleome* Neck.)=*Cleome* Linn.
viscosa Raf. l.c., *nom.* (*Cleome monophylla* Linn.). India, Tropical Africa.
SILIUARIA Forsk.=*Cleome* Linn.
arabica Raf. Sylva Tellur. 111. 1838, *nom. nov.* [*Siliquaria glandulosa* Forsk.]. Arabia=*Cleome arabica* Linn.
STYLISIA Raf. Sylva Tellur. 112. 1838, *descr.* (Type *Cleome speciosissima* Deppe ex Lindl.)=*Cleome* Linn.
TARENAYA Raf. Sylva Tellur. 111. 1838, *descr.*=*Cleome* Linn. (*Neocleome* Small, 1933).
spinosa Raf. l.c., *nom.* (*Cleome spinosa* Jacq.). Tropical America (*Neocleome spinosa* Small).

TRICLANATHERA Raf. Sylva Tellur. 108. 1838, *descr.*=*Crataeva* Linn.
corymbosa Raf. l.c., *descr.* (*Capparis magna* Lour.). Indo-China (Annam)=*Crataeva magna* (Lour.) DC.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):172. 1935.
falcata Raf. l.c., *descr.* (*Capparis falcata* Lour.). Indo-China (Annam)=*Crataeva falcata* (Lour.) DC.; see Merrill, l.c.

RESEDACEAE

ARKOPODA Raf. Fl. Tellur. 3:73. 1836 [1838], *descr.*=*Reseda* Linn.
luteola Raf. l.c., *nom.* (*Reseda luteola* Linn.). Europe, Asia Minor.
ASTROCARPUS Neck.
purpurascens Raf. Fl. Tellur. 3:73. 1836 [1837], *nom.* (*Reseda purpurascens* Linn.). Spain (*A. clusii* J. Gay).
DIPETALIA Raf. Fl. Tellur. 3:73. 1836 [1837], *descr.*=*Oligomeris* Camb. (1838), *nom. conserv.* (*Ellimia* Nutt., 1838).
capensis Raf. l.c., *descr.* (*Reseda capensis* Burm. f.; *R. dipetala* Ait.). South Africa=*Oligomeris capensis* (Burm. f.) Harv.
HEXASTYLIS Raf. Fl. Tellur. 3:73. 1836 [1837], *descr.*, non *Hexastylis* Raf. 1825=*Caylusea* A. St. Hil. (1837), *nom. conserv.* (*Hexastylis* Raf., 1837; *Styleria* Raf., 1838).
arabica Raf. l.c., *nom.* (*Reseda "hexastylis" [hexagyna]* Forsk.). Arabia=*Caylusea hexagyna* (Forsk.) M. L. Green (*C. canescens* A. St. Hil., non Linn.).
canescens Raf. l.c., *nom.* [*Reseda canescens* A. St. Hil.]. Arabia=*Caylusea hexagyna* (Forsk.) M. L. Green.
PECTANISIA Raf. Fl. Tellur. 3:72. 1836 [1837], *descr.*=*Reseda* Linn.
phyteuma Raf. op. cit. 73, *nom.* [*Reseda phyteuma* Linn.]. Mediterranean region.
RESEDA Linn.
gallica Raf. Fl. Tellur. 3:72. 1836 [1837], *nom.* France.
hexastylis Raf. op. cit. 73, *nom.* sub *Hexastylis* Raf. *sphalm.*=*Reseda hexagyna* Forsk.=*Caylusea hexagyna* (Forsk.) M. L. Green. Arabia.
STYLERIA Raf. Fl. Tellur. 4:121. 1836 [1838], *nom. nov.* *Hexastylis* Raf. (1837), non *Hexastylis* Raf. (1825)=*Caylusea* St. Hil. (1837), *nom. conserv.* (*Hexastylis* Raf., 1837).
TEREIANTHES Raf. Fl. Tellur. 3:72. 1836 [1837], *descr.*=*Reseda* Linn.
alba Raf. l.c., *nom.* (*Reseda alba* Linn.). Europe.
fruticosa Raf. l.c., *nom.* (*Reseda fruticosa* Linn.). Europe=*R. alba* Linn.
glauca Raf. l.c., *nom.* (*Reseda glauca* Linn.). Spain.
undata Raf. l.c., *nom.* (*Reseda undata* Linn.). Europe=*R. alba* Linn.

SARRACENIACEAE

***SARAZINA** Raf. Aut. Bot. 33. 1840, *nom.*=*Sarracenia* Linn.
acuta Raf. op. cit. 34, *descr.* Alabama.
adunca Raf. l.c., *descr.* Florida.
flava Raf. l.c., *nom.* (*Sarracenia flava* Linn.). Southeastern United States.
gibbosa Raf. op. cit. 33, *descr.* (*Sarracenia purpurea* Linn.). Canada to Virginia.
grandiflora Raf. l.c., *nom. alt.* *S. gibbosa* Raf.=*Sarracenia purpurea* Linn.
heterophylla Raf. l.c., *descr.* (*Sarracenia heterophylla* Eaton). New England=*Sarracenia purpurea* Linn.
parviflora Raf. l.c., *descr.* Florida.
rubra Raf. l.c., *descr.* (*Sarracenia rubra* Walt.). Carolina.
variolaris Raf. op. cit. 34, *nom.*=*Sarracenia variolaris* Michx. Carolina.
venosa Raf. op. cit. 33, *descr.* Virginia to Florida=*Sarracenia purpurea* [var.] *venosa* (Raf.) Wherry, Barton 15:3. 1933.
***SARAZINIA** Raf. Fl. Tellur. 1:18. 1836 [1837], *nom. nov.*=*Sarracenia* Linn.
SARRACENIA Linn. (See also *Sarazina* Raf.).
leucophylla Raf. Fl. Ludovic. 10, *nom.*, 14, *descr.*, 148, *nom.*, *nota* (*leucophylla*) 1817 ("Ratpathe velu," i.e. Gouet, Rob. Voy. Louis. 3:331. 1807, *nota*, op. cit. 2:48. 1807, s.n., *descr.*). Florida (near Pensacola). [*S. drummondii* Croom, 1837].

***SARAZINIA** Raf. New Fl. N. Am. 2:6. 1836 [1837], *nom.*=*Sarracenia* Linn.

NEPENTHACEAE

NEPENTHES Linn.

**cantharifera* Raf. Fl. Tellur. 4:101. 1836 [1838], *nom.* (*Cantharifera* Rumph. Herb. Amb. 5:121. t. 59. f. 2. 1747). Amboina=*Nepenthes mirabilis* (Lour.) Druce Rep. Bot. Exch. Club Brit. Isles 1916: 637. 1917 (July); Merr. Interpret. Rumph. Herb. Amb. 242. 1917 (Nov.) (*N. phyllamphora* Willd.).
**scyphus* Raf. l.c., *nom.* [*Scyphus *malacensis* Juss. Gen. Pl. 444. 1789, *nom.*]. Malacca.
zeylanica Raf. l.c., *nom.* (*Bandura* Burm. Thes. Zeyl. 42. t. 17. 1737). Ceylon=*Nepenthes distillatoria* Linn.

DROSERACEAE

ADENOPOA Raf. Fl. Tellur. 3:37. 1836 [1837], *descr.*=*Drosera* Linn.
anglica Raf. ex Jacks*. Ind. Kew. 1:39. 1893 (*Drosera anglica* Huds.). England, Europe.
***CINCINALIS** Raf. Herb. Raf. 69. 1833, *nom.*, subgen. *Drosera* Linn. (Type *Drosera filiformis* Raf.)=*Drosera* Linn.
DIONAEA Ellis
corymbosa Raf. Med. Fl. 2:217. 1830, *nom.* (*Dionea*); Loud. Gard. Mag. 8:246. 1832, *nom.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, iter. Britten, Jour. Bot. 38:227. 1900. Carolina=*D. muscipula* Ellis.
sessiliflora Raf. Med. Fl. l.c., *nom.* (*Dionea*); Loud. Gard. Mag. 8:246. 1832, *nom.*, iter. Schlecht. et Britten, l.c.; Raf. Atl. Jour. 1:78. 1832, *descr.*; New Fl. N. Am. 4:17. 1836 [1838], *descr.* Carolina, cult. Philadelphia=*D. muscipula* Ellis.
var. *uniflora* Raf. New Fl. N. Am. 4:17. 1836 [1838], *descr.*
uniflora Raf. Atl. Jour. 1:79. 1832, *descr.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, iter. Schlecht. et Britten, l.c. Carolina, cult. Philadelphia=*Dionaea muscipula* Ellis.
DIONEAE Raf. Anal. Nat. Tabl. Univ. 180. 1815, *nom.*; Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.*; Med. Fl. 2:217. 1830, *nom.*; Atl. Jour. 1:78. 1832, *nom.*; Fl. Tellur. 1:11. 28. 1836 [1837], *nom.*; New Fl. N. Am. 4:17. 1836 [1838], *nom.*, *nota*.=*Dionaea* Ellis.
**muscipula* Raf. Med. Fl. 2:217. 1830, *nom.*=*Dionaea muscipula* Ellis.
DISMOPHYLA Raf. Fl. Tellur. 3:36. 1836 [1837], *descr.*=*Drosera* Linn.
binata Raf. l.c., *descr.* (*Drosera binata* Labill.; Hook. Bot. Mag. 58: t. 3082. 1831). Australia.
DROSERA Linn.
filiformis Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. (Paris) 1:227. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:174. 265. 1818, *nom.*, *nota*; op. cit. 4:191. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.*, *nota*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *nota*, iter. Schlecht, Linnaea 8: Lit.-Ber. 69. 1833, iter. Britten, Jour. Bot. 38:226. 1900; Herb. Raf. 69. 1833, *nom.*; Life of Travels 15. 1835, *nom.*; Fl. Tellur. 3:37. 1836 [1837], *nom.* sub *Filicirna* Raf., *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* Long Island, New Jersey.
leionema Raf. Fl. Tellur. 3:37. 1836 [1837], *nom. alt.* *Filicirna leionema* Raf. Southern New Jersey. Ex *descr.*=*Drosera filiformis* Raf.
sessiliflora Raf. Atl. Jour. 1:148. 1832, *descr.* Florida. Ex *descr.*=*Drosera capillaris* Poir.
**spatulosa* Raf. Act. Soc. Linn. Bordeaux 6:263. 1834, *nom.*, *nota* (*Drosera rotundifolia* auct. Am.), iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.* [Eastern United States]=*D. rotundifolia* Linn.
uniflora Raf. Atl. Jour. 1:148. 1832, *descr.* Florida. Ex *descr.*=*Drosera brevifolia* Pursh.
FILICIRNA Raf. Fl. Tellur. 3:37. 1836 [1837], *descr.*=*Drosera* Linn.
filiformis Raf. l.c., *descr.* Pine barrens of New Jersey=*Drosera filiformis* Raf. (*D. tenuifolia* Willd.).
leionema Raf. l.c., *descr.* Southern New Jersey. Ex *descr.*=*Drosera filiformis* Raf.
tenuifolia Raf. l.c., *descr.* (*Drosera tenuifolia* Willd.; Hook. Bot. Mag. 63: t. 3540. 1836, as *D. filiformis* Raf.). New England, Long Island, New Jersey=*Drosera filiformis* Raf.

- RORELLA** Raf. Fl. Tellur. 3:36. 1836 [1837], *descr.* = *Drosophyllum* Link (1806).
lusitanica Raf. l.c., *descr.* (*Drosera lusitanica* Linn.). Southwestern Europe = *Drosophyllum lusitanicum* (Linn.) Link.
#ROSSOLIS Raf. Fl. Tellur. 3:36. 1836 [1837], *descr.*, subgen. *Drosera* Linn. [*Rossolis* Adans. 1763 ut gen.] = *Drosera* Linn. (Type *Drosera acaulis* Thunb.).

PODOSTEMACEAE

- PODOSTEMON** auctt. = *Podostemum* Michx. (1803).
repens Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Alleghany Mountains or Ohio = *Podostemum ceratophyllum* Michx.

CRASSULACEAE

- *AECTYSON** Raf. Western Minerva 41. 1821, *descr.*, iter. Fox, Science II. 12:212. 1900 = *Sedum* Linn.
**sagittatum* Raf. l.c., *descr.*, iter. Fox, l.c. Kentucky = *Sedum polystachyum* Michx.
***ATYSON** Raf. Act. Soc. Linn. Bordeaux 6:267. 1834, *descr.* = *praec.*
***CABENIA** Raf. Anal. Nat. Tabl. Univ. 174. 1815, *nom.* Quid?
***CHETYSON** Raf. Ann. Gén. Sci. Phys. 7:387. 1820, *descr.* = *Sedum* Linn.
**sagittatum* Raf. l.c., *descr.* [Kentucky] = *Sedum polystachyum* Michx.
COTYLARIA Raf. Princ. Somiol. 25. 1814, *nom. nov.* *Cotyledon* Linn.; Anal. Nat. Tabl. Univ. 186. 1815, *nom.* (*Cotyledon* Linn.); Fl. Tellur. 1:83. 1836 [1837], *nom.* (*Cotyledon* Linn.) = *Cotyledon* Linn.
COTYLEDON Linn.
marginatum Raf. Atl. Jour. 1:79. 1832, *descr.*, cult. (from Mexico).
†PHEDIMUS Raf. Anal. Nat. Tabl. Univ. 174. 1815, *nom.*; Am. Monthly Mag. Crit. Rev. 1:438. 1817, *descr.* = *Sedum* Linn. *sagittatus* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
stellatus Raf. Am. Monthly Mag. Crit. Rev. 1:438. 1817, *descr.* (*Sedum stellatum* Linn.); Fl. Ludovic. 168. 1817, *nom.* Sicily, North Africa.
uniflorus Raf. Ilcc., *descr.*, *nom.* (*Sedum uniflorum* Raf.); Act. Soc. Linn. Bordeaux 6:267. 1834, *nom. nota.* Sicily.
RHODIOLA Linn.
integrifolia Raf. Atl. Jour. 1:146. 1832, *nom.* (*Sedum rhodiola* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:206. 1827, *non* Linn.). Rocky Mountains = *Sedum rosea* (Linn.) Scop.¹⁸ var. *integrifolium* (Raf.) Hulten (*Sedum rhodiola* sensu Coult., *non* DC.; *S. frigidum* Rydb.).
SEDUM Linn.
nuttallianum Raf. Atl. Jour. 1:146. 1832, *nom.* (*Sedum* "n. sp. Nutt."; Torr. Ann. Lyc. Nat. Hist. N. Y. 2:205. 1827, *descr.*). Rocky Mountains (*S. *nuttallii* Eaton, Man. ed. 6. 334. 1833; *S. torreyi* G. Don, 1834; *S. sparsiflorum* Nutt., 1840).
rhodioides Raf. l.c., *nom. alt.* *Rhodiola integrifolia* Raf. = *Sedum rosea* (Linn.) Scop. var. *integrifolium* (Raf.) Hulten.
uniflorum Raf. Car. Nuov. Gen. Sp. Sicil. 73. t. 18. f. 2. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.* Sicily.

SAXIFRAGACEAE

- ADENOGYNA** Raf. New Fl. N. Am. 1:62. 1836, *descr.* (*Saxifraga sarmentosa* Linn. f.); Fl. Tellur. 2:67. 1836 [1837], *nom.* sub *Rupifraga* "Linn." [Sternb.] = *Saxifraga* Linn.
sarmentosa Raf. ex Jacks*. Ind. Kew. 1:67. 1893 (*Saxifraga sarmentosa* Linn. f.). Japan; spontaneous in Kentucky.
ADENOGYNE Raf. ex Jacks*. Ind. Kew. 1:38. 1893, *nom.* = *praec.*
APHOMONIX Raf. Fl. Tellur. 2:65. 1836 [1837], *descr.* = *Saxifraga* Linn.

¹⁸ See Fernald, M. L. *Sedum Rosea*, not *S. roseum*. *Rhodora* 49:79-81. 1947. Professor Fernald emphatically does not approve of the decapitalization of specific names of this type which I have elected to follow in this work. In my personal opinion zoological usage, i.e., the decapitalization of all specific names, regardless of their origins, is preferable to that of the conservative botanists; see p. 11.

- hederacea* Raf. ex Jacks*. Ind. Kew. 1:160. 1893 (*Saxifraga hederacea* Linn.). Southern Europe, Asia Minor.
#APLERIA Raf. New Fl. N. Am. 3:76. 1836 [1838], *descr.*, subgen. *Hydrangea* Linn.
BLONDIA Neck. = *Tiarella* Linn.
bitermata Raf. Fl. Tellur. 2:75. 1836 [1837], *descr.* (*Tiarella bitermata* Vent.; *Spiraea aruncus* Linn. var. [*hermaphrodita* Michx.]). Saluda Mountains of Carolina = *Astilbe bitermata* (Vent.) Britton.
trifoliata Raf. l.c., *descr.* (*Tiarella trifoliata* Linn.). Eastern Siberia and Oregon.
DICONANGIA Adans. (1763); Raf. Aut. Bot. 7. 1840, *nom.*, *nota* = *Itea* Linn.
**heterophylla* Raf. l.c., *nom.*, *nota* (*Itea virginica* Linn.). New Jersey to Louisiana.
DITRICHLITA Raf. New Fl. N. Am. 1:63. 1836, *nom.* sub *Adenogyna* Raf. = *Saxifraga* Linn.
***DRUMONDIA** Raf. Fl. Tellur. 2:72. 1836 [1837], *nom.* sub *Pectiantia* Raf. = *Drummondia* DC. (1830) = *Mitella* Linn.
EVAIEZOA Raf. Fl. Tellur. 2:70. 1836 [1837], *descr.* = *Chondrosea* Haw. (1821) = *Saxifraga* Linn.
aizoides Raf. ex Jacks*. Ind. Kew. 1:938. 1893 (*Saxifraga aizoides* Linn.). Boreal and Arctic regions.
ajugifolia Raf. ex Jacks*. l.c. (*Saxifraga ajugifolia* Linn.). Southern Europe.
androsacea Raf. ex Jacks*. l.c. (*Saxifraga androsacea* Linn.). Europe.
biflora Raf. ex Jacks*. l.c. (*Saxifraga biflora* All.). Southern Europe.
bulbifera Raf. ex Jacks*. l.c. (*Saxifraga bulbifera* Linn.). Southern Europe.
burseriana Raf. ex Jacks*. l.c. (*Saxifraga burseriana* Linn.). Southern Europe.
callosa Raf. ex Jacks*. l.c. (*Saxifraga callosa* Sm.). Southern Europe = *Saxifraga longifolia* Lapeyr.
caesia Raf. ex Jacks*. l.c. (*Saxifraga caesia* Linn.). Southern Europe.
cespitosa Raf. ex Jacks*. l.c. (*Saxifraga caespitosa* Linn.). Boreal and Arctic regions.
cuneata Raf. ex Jacks*. l.c. (*Saxifraga cuneata* Willd.). Spain.
diapensoides Raf. ex Jacks*. l.c. (*Saxifraga diapensoides* Bell.). Southern Europe.
†erosa Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:341. 1878, *nom.* in syn. (*Saxifraga erosa* Pursh). Eastern North America = *S. micranthidifolia* (Haw.) Britton.
escholtzii Raf. ex Jacks*. l.c. (*Saxifraga eschscholtzii* Sternb.). Arctic America.
**eschscholtzii* Raf. ex Wats. Bibl. Ind. N. Am. Bot. 1:341. 1878, *nom.* in syn. = *praec.*
exarata Raf. ex Jacks*. l.c. (*Saxifraga exarata* Vill.). Southern Europe.
exilis Raf. ex Jacks*. l.c. (*Saxifraga exilis* Steph.). Siberia and Arctic America.
geranioides Raf. ex Jacks*. l.c. (*Saxifraga geranioides* Linn.). Pyrenees Mountains.
granulata Raf. ex Jacks*. l.c. (*Saxifraga granulata* Linn.). Europe.
†hieracifolia Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:342. 1878, *nom.* in syn. (*Saxifraga hieracifolia* Waldst. & Kit.). Boreal and Arctic regions.
hirta Raf. ex Jacks*. l.c. (*Saxifraga hirta* Donn). Europe = *S. caespitosa* Linn. var. *palmata* (Sm.) Engl. & Irmsch.
ladanifera Raf. ex Jacks*. l.c. (*Saxifraga ladanifera* Lapeyr.). Pyrenees Mountains = *S. pentadactylis* Lapeyr. = *S. geranioides* Linn.
†laurentiana Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:345. 1878, *nom.* in syn. (*Saxifraga laurentiana* Ser.). Northwestern North America = *S. cernua* Linn. var. *laurentiana* (Ser.) Engl.
mutata Raf. ex Jacks*. l.c. (*Saxifraga mutata* Linn.). Southern Europe.
nutans Raf. ex Jacks*. l.c. (*Saxifraga nutans* D. Don). Alaska = *Romanzoffiana unalaschkensis* Chamisso.
†oppositifolia Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:343. 1878, *nom.* in syn. (*Saxifraga oppositifolia* Linn.). Boreal and Arctic regions.
palmata Raf. ex Jacks*. l.c. (*Saxifraga palmata* Lapeyr.). Pyrenees Mountains = *S. geranioides* Linn. var. *palmata* (Lapeyr.) DC.
pedatifida Raf. ex Jacks*. l.c. (*Saxifraga pedatifida* Ehrh.). Southern Europe = *S. prostii* Sternb.

EVAIEZOA (continued).

- †*pennsylvanica* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1: 344. 1878, *nom. in syn.* (*Saxifraga pennsylvanica* Linn.); Burns, Am. Midl. Nat. 28:42. 1932 (*Euaeizoa*). Eastern North America.
- †*punctata* Raf. ex S. Wats. l.c., *nom. in syn.* (*Saxifraga punctata* Linn.). Siberia, Northwestern North America.
- pungens* Raf. Fl. Tellur. 2:71. 1836 [1837], *descr.* (*Saxifraga burseriana* sensu Lapeyr. Fig. Fl. Pyren. 35. 1801, i.e., *S. burseriana* sensu Jacq. Misc. 1: t. 17. 1778=*Saxifraga burseriana* Linn. var. *spinosa* Pers. Syn. 1:488. 1805. Europe).
- retusa* Raf. ex Jacks*. l.c. (*Saxifraga retusa* Gouan). Southern Europe.
- †*rivularis* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:345. 1878, *nom. in syn.* (*Saxifraga rivularis* Linn.). Arctic and Boreal regions.
- †*serpyllifolia* Raf. ex S. Wats. l.c., *nom. in syn.* (*Saxifraga serpyllifolia* Pursh). Northwestern North America, Siberia.
- †*sileniflora* Raf. ex S. Wats. l.c., *nom. in syn.* (*Saxifraga sileniflora* Hook.). Western North America.
- trichodes* Raf. Fl. Tellur. 2:71. 1836 [1837], *descr.* (*Saxifraga trichodes* Scop.). Southern Europe.
- trifurcata* Raf. ex Jacks*. l.c. (*Saxifraga trifurcata* Schrad.). Spain.
- †*venosa* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:339. 1878, *nom. in syn.* (*Saxifraga venosa* Haw.). Boreal and Arctic regions=*S. caespitosa* Linn. subsp. *euaespitosa* Engl. & Irmsch.
- †**HEMIEVA** Raf. New Fl. N. Am. 1:63. 1836, *nom. sub Ade-nogyna* Raf.; Fl. Tellur. 2:70. 1836 [1837], *descr.*=*Suksdorfia* A. Gray (1880), *nom. conserv.* (*Hemieva* Raf., 1836-37).
- ranunculifolia* Raf. Fl. Tellur. l.c., *descr.* (*Saxifraga ranunculifolia* Hook. Fl. Bor. Am. 1:246. t. 83. 1834). Columbia River, Oregon=*Suksdorfia ranunculifolia* (Hook.) Engl. (*Boykinia ranunculifolia* A. Gray).
- richardsoni* Raf. l.c., *descr.* (*Saxifraga richardsonii* Hook.). Arctic America=*Boykinia richardsonii* (Hook.) A. Gray (*Therofon richardsonii* Wheelock).
- HETERESIA** Raf. Fl. Tellur. 2:69. 1836 [1837], *nom. nov. provis., nota, sub Steiranisia heterantha* Raf. (Type *Saxifraga heterantha* Hook. Fl. Bor. Am. 1:252. t. 78. 1834)=*Steiranisia* Raf. (1836-37)=*Saxifraga* Linn.
- HEUCHERA** Linn.
- †*acerifolia* Raf. Med. Fl. 1:241. f. 49. 1828, *descr., iter.* Man. Med. Bot. 241. f. 49. 1841. Pennsylvania and Maryland to West Virginia, Kentucky and Tennessee=*H. villosa* Michx.
- †*foliosa* Raf. Life of Travels 104. 1836, *nom.*¹⁴ Pennsylvania.
- glauca* Raf. Med. Fl. 1:244. 1828, *descr., iter.* Man. Med. Bot. 244. 1841. Cumberland Mountains=*H. americana* Linn. var. *glauca* (Raf.) Rosendahl.
- †*grandiflora* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Jacks. Ind. Kew. 1:1142. 1893 *nom.* [*Heuchera pulverulenta* Raf. var. *grandiflora* Raf. Med. Fl. 1:244. 1828]. Kentucky=*H. pubescens* Pursh.
- **palmata* Collins ex Raf. New Fl. N. Am. 4:66. 1836 [1838], *nom. in syn. sub Therofon napelloides* Raf. North Carolina =*Boykinia aconitifolia* Nutt.
- **parviflora* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
- pulverulenta* Raf. Med. Fl. 1:243. 1828, *descr.* (*H. pubescens* Pursh), *iter.* Man. Med. Bot. 243. 1841. New England to Pennsylvania=*Heuchera pubescens* Pursh.
- var. *grandiflora* Raf. Il.cc., 244, *nom.*
- var. *rubra* Raf. Il.cc., *nom.*
- reniformis* Raf. Il.cc., *descr.* Cumberland Mountains and Kentucky=*H. pubescens* Pursh.
- squamosa* Raf. Il.cc., *descr.* Maryland, Virginia and Kentucky =*H. villosa* Michx.
- var. *confertiflora* Raf. Il.cc., *nom.*
- var. *laxiflora* Raf. Il.cc., *nom.*
- var. *pumila* Raf. Il.cc., *nom.* (err. *pumita*).
- viscida* Pursh. Eastern North America=*H. americana* Linn.
- var. *macrophylla* Raf. Il.cc. 243, *nom.* (err. *macrophylo*).
- var. *maculata* Raf. Il.cc., *nom.*
- var. *scabra* Raf. Il.cc., *nom.*

¹⁴ S. Watson's reference, Bibl. Ind. N. Am. Bot. 1:326. 1878, to Rafinesque's Medical Flora 244. is an error, the name not appearing there. The Life of Travels entry is the only one noted by me.

- HEXAPHOMA** Raf. Fl. Tellur. 2:66. 1836 [1837], *descr.*=*Spatularia* Haw. (1821)=*Saxifraga* Linn.
- ferruginea* Raf. l.c., *descr.* (*Saxifraga ferruginea* Grah.; *S. leucanthemifolia* sensu Hook. Bot. Mag. 57: t. 2959. 1830). Rocky Mountains or Oregon=*Saxifraga ferruginea* Grah. (*Saxifraga leucanthemifolia* Michx. var. *ferruginea* A. Gray; *Spatularia ferruginea* Small).
- petiolaris* Raf. op. cit. 67, *descr.* (*Saxifraga leucanthemifolia* Michx.). Appalachian Mountains=*Saxifraga michauxii* Britton (*Saxifraga leucanthemifolia* Michx. 1803, non Lapeyr. 1801; *Spatularia petiolaris* Small; *Hydaticea petiolaris* Small).
- pyrenaica* Raf. l.c., *descr.* (*Saxifraga leucanthemifolia* Lapeyr. Fl. Pyr. 49. t. 25. 1801). Pyrenees and Alps of Europe=*Saxifraga clusii* Gouan.
- viscida* Raf. l.c., in *nota sub Hexaphoma ? pyrenaica* Raf., *descr.* (*Saxifraga clusii* Gouan). Pyrenees=*Saxifraga clusii* Gouan.
- ***HIRCULUS** Raf. Anal. Nat. Tabl. Univ. 195. 1815, *nom.*; Fl. Tellur. 2:69. 1836 [1837], *descr.*=*Leptasia* Haw. (1821)=*Saxifraga* Linn.
- punctatus* Raf. Fl. Tellur. l.c., *descr.* (*Saxifraga hirculus* Linn.). Europe, Asia, North America (*Leptasia hirculus* Small).
- HYDATICA** Neck.; Raf. Fl. Tellur. 2:65. 1836 [1837], *descr.*=*Saxifraga* Linn.
- cuneifolia* Raf. ex Jacks*. Ind. Kew. 1:1182. 1893 (*Saxifraga cuneifolia* Linn.). Europe.
- foliolosa* Raf. ex Jacks*. l.c. (*Saxifraga foliolosa* R. Br.). Boreal and Arctic regions=*S. stellaris* Linn.
- geum* Raf. ex Jacks*. l.c. (*Saxifraga geum* Linn.). Europe.
- hirsuta* Raf. ex Jacks*. l.c. (*Saxifraga hirsuta* Linn.). Europe =*S. geum* Linn. subsp. *hirsuta* (Linn.) Engl. & Irmsch.
- umbrosa* Raf. ex Jacks*. l.c. (*Saxifraga umbrosa* Linn.). Europe.
- HYDRANGEA** Linn.
- †*acuta* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. 3: 77. 1836 [1838], *descr.* Appalachian Mountains=*H. arborescens* Linn.
- †*amplexifolia* Raf. l.c., *nom.*; op. cit. 78, *descr.* Pennsylvania=*Hydrangea arborescens* Linn.
- †*discolor* Raf. l.c., *nom.*; op. cit. 79, *descr.* Appalachian Mountains=*H. radiata* Walt.
- glauca* Raf. New Fl. N. Am. 3:77. 1836 [1838], *descr.* Alleghany Mountains and Alabama=*H. arborescens* Linn.
- †*heterophylla* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. 3:78. 1836 [1838], *descr.* Kentucky (Wasioto Mountains)=*H. arborescens* Linn.
- paniculata* Raf. New Fl. N. Am. 3:77. 1836 [1838], *descr.* "probably from Oregon and Siberia."
- †*rotundifolia* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. op. cit. 78, *descr.* Virginia and Kentucky=*H. arborescens* Linn.
- vulgaris* Michx. var. *carnea* Raf. New Fl. N. Am. 3:77. 1836 [1838], *descr.* Alleghany Mountains=*H. arborescens* Linn.
- ***IMBUTIS** Raf. Herb. Raf. 54. 1833, *nom.*=*Ribes* Linn.
- **ribesoides* Raf. l.c., *nom.*, *nota* "Red current I p. 305" [Lewis & Clark]. Northwestern United States=*Ribes* sp.
- IRAUPALOS** Raf. Ann. Gén. Sci. Phys. 6:87. 1820, *nom.*, *sphalm.* [*Traupalos* Raf. op. cit. 5:351. 1820]=*Hydrangea* Linn.
- JUNIA** Raf. Aut. Bot. 6. 1840, *descr.*; Pennell, Torr. Bot. Club 48:91. 1921, *nom.*, *nota*, non Adans. 1763. Ex *descr.* Saxifragaceae, *gen. dub.*
- triflora* Raf. l.c., *descr.*; Pennell, l.c., *nom.* "Whether Floridan, Antillan or African I am not sure."
- LEPTAXIS** Raf. Fl. Tellur. 2:75. 1836 [1837], *descr.*=*Tolmiea* Torr. & Gray (1840), *nom. conserv.* (*Leptaxis* Raf., 1837).
- menziesii* Raf. op. cit. 76, *descr.* (*Heuchera menziesii* Hook. Fl. Bor. Am. 1:237. t. 80. 1834). Northwestern United States=*Tolmiea menziesii* (Hook.) Torr. & Gray.
- #**MALAGEA** Raf. Fl. Tellur. 2:65. 1836 [1837], *nom.*, *nota*, subgen. *Saxifraga* Linn. (Type *Saxifraga orientalis* Jacq.).
- #**MEGASTEIRA** Raf. New Fl. N. Am. 3:76. 1836 [1838], *descr.*, subgen. *Hydrangea* Linn.
- OREANTHUS** Raf. Seringe Bull. Bot. 1:216. 1830, *nom.*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 81. 1833=seq.
- bracteatus* Raf. Il.cc., *nom.* (*Tiarella pentandra* "Torr.", *sphalm.* [*Tiarella bracteata* Torr.]). Rocky Mountains=*Heuchera bracteata* (Torr.) Seringe.

- OREOTRYS** Raf. Atl. Jour. 1:145. 1832, *descr.*; Fl. Tellur. 2: 74. 1836 [1837], *descr.*=*Oreanthus* Raf. (1830)=*Heuchera* Linn.
bracteata Raf. Il.cc., *nom.*, *descr.* (*Tiarella bracteata* Torr.). Rocky Mountains=*Heuchera bracteata* (Torr.) Seringe.
- OZOMELIS** Raf. Fl. Tellur. 2:73. 1836 [1837], *descr.*=*Mitella* Linn.
varians Raf. l.c., *descr.* (*Mitella trifida* Grah.; Hook. Fl. Bor. Am. 1:241. t. 82. 1829). Oregon (*Ozomelis trifida* Rydb.).
- PARNASSIA** Linn.
glauca Raf. Aut. Bot. 42. 1840, *descr.* Lake Ontario, Genessee River, and New Jersey=*P. caroliniana* Michx.
grandiflora Raf. op. cit. 41, *descr.* Unaka or Cherokee Mountains, North Carolina=*P. caroliniana* Michx.
nudata Raf. l.c., *descr.* Unaka Mountains, North Carolina=*P. asarifolia* Vent.
palustris Linn. var. *parvifolia* Raf. l.c., *descr.* Alleghany Mountains=*P. palustris* Linn.
**repanda* Raf. op. cit. 42, *descr.* Taconic Mountains, Massachusetts-New York=*P. caroliniana* Michx.
**rotundifolia* Raf. op. cit. 41, *descr.* Saranac Mountains, New York=*P. caroliniana* Michx.
- *PECTANTIA* Raf. Fl. Tellur. 2:73. 1836 [1837], *nom.*=seq.
- PECTANTIA** Raf. Fl. Tellur. 2:72. 1836 [1837], *descr.*, *nom.* *nov.* *Drummondia* DC. (1830)=*Mitella* Linn.
mitelloides Raf. l.c., *descr.* (*Drummondia mitelloides* DC.; *Mitella pentandra* Hook. Bot. Mag. 56: t. 2933. 1829). Rocky Mountains=*Mitella pentandra* Hook. (*Pectantia pentandra* Rydb.).
- *PECTANTHIA* Raf. ex Rydb. Fl. Rocky Mount. 379. 1917, *sphalm.*=*prae.*
- *PETALEPIS* Raf. Am. Monthly Mag. Crit. Rev. 3:99. 1818, *nom. nov. provis.* *Lepuropetalon* Ell. (1817).
- PETALOSTEIRA** Raf. Fl. Tellur. 2:74. 1836 [1837], *descr.*=*Tiarella* Linn.
laciniata Raf. l.c., *nom.* (*Tiarella laciniata* Hook. Fl. Bor. Am. 1:239. t. 77. 1834). Northwestern North America.
unifolia Raf. l.c., *nom.* (*Tiarella unifolia* Retz.; "Hooker fl. bor. t. 81"). North America=? *Mitella nuda* Linn., et quoad syn. Hook. [*Tiarella unifoliata* Hook. Fl. Bor. Am. 1:238. t. 81. 1834] *Tiarella unifoliata* Hook.
**unifoliata* Raf. ex Small & Rydb. N. Am. Fl. 22:118. 1905, *nom.* in syn.=*Tiarella unifoliata* Hook.
- PHILADELPHUS** Linn.
**discolor* Raf. Aut. Bot. 149. 1840, *descr.* Appalachian Mountains of Carolina.
**pubescens* Raf. Seringe, Bull. Bot. 215. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 80. 1833. New York, near Lake Cayuga.=*P. grandiflorus* Willd.
- PIAROPHYLA** Raf. Fl. Tellur. 2:68. 1836 [1837], *descr.*=*Bergenia* Moench (1794), *nom. conserv.*, non Neck. (1790) (*Geryonia* Schrank., 1818; *Megasea* Haw., 1821).
cordifolia Raf. l.c., *descr.* (*Saxifraga cordifolia* sensu Haworth). Siberia=*Bergenia crassifolia* (Linn.) Fritsch.
elliptica Raf. l.c., *descr.* (*Saxifraga crassifolia* Linn.). Siberia and northwestern America=*Bergenia crassifolia* (Linn.) Fritsch.
sibirica Raf. l.c., *descr.* (*Saxifraga foliis ovalibus* Gmel. Fl. Sibir. 4:166. t. 66. 1769; *Saxifraga crassifolia* Linn.; Curtis, Bot. Mag. 6: t. 196. 1793). Siberia=*Bergenia crassifolia* (Linn.) Fritsch (*B. bifolia* Moench).
- PLEURENDOTRIA** Raf. Fl. Tellur. 2:73. 1836 [1837], *descr.*, *nom. nov.* *Lithophragma* [*Lithofragma*] Nutt.=*Tellima* R. Br. (1823).
parvifolia Raf. l.c., *descr.* (*Tellima parviflora* Hook. Fl. Bor. Am. 1:239. t. 78. f. A. 1834). Oregon=*Lithophragma parvifolia* (Hook.) Nutt.
reniformis Raf. op. cit. 74, *descr.* (*Lithophragma reniformis* Nutt.). Rocky Mountains or Oregon=*prae.*
- PONISTA** Raf. Fl. Tellur. 2:65. 1836 [1837], *descr.*=*Muscaria* Haw. (1821)=*Saxifraga* Linn.
oregonensis Raf. op. cit. 66, *descr.* (*Saxifraga petraea* sensu Hook. Fl. Bor. Am. 1:245. 1834; Hook. Bot. Mag. 57: t. 3026. 1830). Oregon Mountains (i.e. Rocky Mountains)=*Saxifraga tridactylitis* (Linn.) Engl. & Irmsch., subsp. *adscendens* A. Blyth, forma americana Engl. & Irmsch. (*Ponista ascendens* (Linn.) Small), et, quoad Bot. Mag. t. 3026, *Saxifraga petraea* Linn.
petrea Raf. l.c., *descr.* (*Saxifraga petraea* Linn.; Jacq. Ic. Pl. Rar. 1: t. 81. 1781-86). Alps of Europe.
- RIBES** Linn.
**atropurpureum* Raf. Herb. Raf. 54. 1833, *nom.* Rocky Mountains or Oregon (Lewis & Clark).
**bicolor* Raf. l.c., *nom.* Rocky Mountains or Oregon (Lewis & Clark).
**glutinosum* Raf. l.c., *nom.* Rocky Mountains or Oregon (Lewis & Clark).
**longiflorum* Raf. op. cit. 40, *nom.* Upper Missouri (Mandan country)=Dakota.
- RUPIFRAGA** Raf. Fl. Tellur. 2:67. 1836 [1837], *descr.* [*Rupifraga* Sternb. 1831, ut sect. *Saxifraga* Linn.]=*Saxifraga* Linn.
cuscutiformis Raf. op. cit. 4:121. 1836 [1838], *descr.* (*Saxifraga cuscutaeformis* Lodd. Bot. Cab. 2: t. 186. 1821; Sims, Bot. Mag. 53: t. 2631. 1826). China=*Saxifraga sarmentosa* Linn., ? var.
sarmentosa Raf. op. cit. 2:68. 1836 [1837], *descr.* (*Saxifraga sarmentosa* Linn.; Curtis, Bot. Mag. 3: t. 92. 1790; *S. stolonifera* Jacq.). China, Japan=*Saxifraga sarmentosa* Linn.
- #SALUDA* Raf. Fl. Tellur. 2:75. 1836 [1837], *nom. nov. provis.*, subgen. *Blondia* Raf., sub *Blondia trifoliata* Raf.=*Tiarella* Linn.
- SAXIFRAGA** Linn.
**granularis* Raf. Am. Florist f. 14. 1832, *nom.*=*Saxifraga granulata* Linn. Europe.
**macrodon* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.
**spathulata* Raf. l.c., *nom.* Rocky Mountains or Oregon.
- †STEIRANISIA* Raf. New Fl. N. Am. 1:63. 1836, *nom.* sub *Adenogyna* Raf.; Fl. Tellur. 2:68. 1836 [1837], *descr.*=*Heterisia* Raf. (1837)=*Micranthes* Haw. (1812)=*Saxifraga* Linn.
heterantha Raf. Fl. Tellur. 2:69. 1836 [1837], *descr.* (*Saxifraga heterantha* Hook. Fl. Bor. Am. 1:252. t. 78. 1834). Northwestern United States=*Heterisia heterantha* Small=*Micranthes reflexa* Small=*Saxifraga mertensiana* Bong. (1832).
punctata Raf. l.c., *descr.* (*Saxifraga punctata* Linn.). Siberia.
reflexa Raf. l.c., *descr.* (*Saxifraga reflexa* Hook. Fl. Bor. Am. 1:249. t. 85. 1834). Boreal America.
- TELESONIX** Raf. Fl. Tellur. 2:69. 1836 [1837], *descr.*=*Boykinia* Nutt. (1834), non *Boykiana* Raf., 1825, *nom. conserv.* (*Therofon* Raf., 1837; *Telesonix* Raf., 1837).
jamesii Raf. l.c., *descr.* (*Saxifraga jamesii* Torr.; *Therofon jamesii* Wheelock). Rocky Mountains=*Boykinia jamesii* (Torr.) Engl.
- *THEREFON* Raf. Good Book 46. 1840, *nom.*, *sphalm.*=seq.
- THEROFON** Raf. New Fl. N. Am. 4:66. 1836 [1838], *descr.*, *nom. nov.* *Boykinia* Nutt., 1834, non *Boykiana* Raf. (1825) (*Boykinia* Raf., 1840)=*Boykinia* Nutt. (1834), *nom. conserv.*, vide supra.
napelloides Raf. l.c., *descr.* (*Boykinia aconitifolia* Nutt.); Aut. Bot. 15. 1840, *nom.* Unaka or Iron Mountains, North Carolina=*Boykinia aconitifolia* Nutt. (*Therofon aconitifolium* Millsp.).
- TRAPAULOS** Raf. ex Reichb. Conspect. Reg. Veg. 92. 1828, *nom.*, *sphalm.*=seq.
- *TRAUPALOS* Raf. Ann. Gén Sci. Phys. 5:351. 1820, *descr.*: Isis von Oken 1821, 2:979. 1821, *descr.*; Alsogr. Am. 51. 1838, *descr.* sub *Viburnum* Linn. "either gen. subgen. v. sect." Ex *descr.*=*Hydrangea* Linn.
- TULORIMA** Raf. Fl. Tellur. 2:69. 1836 [1837], *descr.*=*Saxifraga* Linn.
cymbalaria Raf. l.c., *descr.* (*Saxifraga cymbalaria* Linn.). Asia Minor.
- YAMALA** Raf. Fl. Tellur. 2:75. 1836 [1837], *descr.*=*Heuchera* Linn.
cylindrica Raf. l.c., *descr.* (*Heuchera cylindrica* Dougl.). Oregon.

BRUNIACEAE

- TRIMEIANDRA** Raf. Fl. Tellur. 4:105. 1836 [1838], *descr.*=*Lonchostoma* Wikstr. (1818), *nom. conserv.* (*Ptyxostoma* Vahl, 1810).
spicata Raf. l.c., *descr.* (*Passerina pentandra* Thunb.). South Africa=*Lonchostoma pentandrum* (Thunb.) Druce (*L. obtusiflorum* Wikstr.).

HAMAMELIDACEAE

HAMAMELIS Linn.

- dentata* Raf. New Fl. N. Am. 3:17. 1836 [1838], *nom. alt.* *Trilopus dentatus* Raf. Canada and New England=*Hamamelis virginiana* Linn.
- †*festivalis* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. 3:16. 1836 [1838], *nom. alt.* *Trilopus estivalis* Raf. Western Kentucky=*Hamamelis virginiana* Linn.
- hyemalis* Raf. New Fl. N. Am. 3:16. 1836 [1838], *nom. nov. provis.* *Hamamelis virginica* Linn. North America=*Hamamelis virginiana* Linn.
- †*nigra* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. 3:16. 1836 [1838], *nom. alt.* *Trilopus nigra* Raf. Alleghany Mountains, Pennsylvania and Virginia=*Hamamelis virginiana* Linn.
- var. *catesbiana* Raf. New Fl. N. Am. l.c., *descr.*
- parvifolia* Raf. Med. Fl. 1:230. 1828, *descr.*, iter. Man. Med. Bot. 230. 1841; New Fl. N. Am. 3:17. 1836 [1838], *nom. alt.* *Trilopus parvifolius* Raf. North America=*Hamamelis virginiana* Linn.
- riparia* Raf. New Fl. N. Am. op. cit. 16, *nom. nov. provis.* *Hamamelis virginica* Linn. North America=*Hamamelis virginiana* Linn.
- rotundifolia* Raf. l.c., *nom. alt.* *Trilopus rotundifolius* Raf., *nom. nov.* *Hamamelis macrophylla* Pursh. Alabama=*Hamamelis virginiana* Linn.
- LOMILIS Raf. Alsogr. Am. 5. 1838, *descr.*; Good Book 48. 1840, *nom.*=? *Hamamelis* Linn.
- ciliata* Raf. l.c., *descr.*; Aut. Bot. 75. 1840, *nom.* North Carolina (Unaka or Cherokee Mountains).
- TRILOPUS (Mitch., 1748) Raf. New Fl. N. Am. 3:15. 1836 [1838], *nom.*, *nota* (*Hamamelis* Linn.)=*Hamamelis* Linn.
- **aestivalis* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:355. 1878, *nom.* in syn.=*T. estivalis* Raf.=*Hamamelis virginiana* Linn.
- dentata* Raf. New Fl. op. cit. 17, *descr.* Canada and New England=*Hamamelis virginiana* Linn.
- estivalis* Raf. op. cit. 16, *descr.* Western Kentucky=*Hamamelis virginiana* Linn.
- hyemalis* Raf. l.c. 16, *nom. nov. provis.* *Hamamelis virginica* Linn.=*Hamamelis virginiana* Linn.
- nigra* Raf. l.c., *descr.* Alleghany Mountains, Pennsylvania to Virginia=*Hamamelis virginiana* Linn.
- var. *catesbiana* Raf. l.c., *descr.*
- parvifolia* Raf. op. cit. 17, *descr.* (*Hamamelis parvifolia* Raf.). Alleghany Mountains of Pennsylvania=*Hamamelis virginiana* Linn.
- riparia* Raf. l.c., *nom. nov. provis.* *Hamamelis virginica* Linn.=*Hamamelis virginiana* Linn.
- rotundifolia* Raf. op. cit. 16, *descr.* (*Hamamelis macrophylla* Pursh). Alabama, Georgia=*Hamamelis virginiana* Linn.
- **virginiana* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:355. 1878, *nom.* in syn.=seq.
- virginica* Raf. op. cit. 15, *descr.* (*Hamamelis virginica* Linn.). New England to Virginia=*Hamamelis virginiana* Linn.

ROSACEAE

AGRIMONIA Linn.

- †*pumila* Muhl. Cat. 47. 1813, *nom. subnud.*; Raf. Fl. Ludovic. 134. 1817, *nom.* Mississippi River.
- **sylvatica* Raf. in M'Murtrie, Sketch. Louisv. 212. 1819, *nom.* Kentucky.
- **AMELANCHUS* Raf. Act. Soc. Linn. Bordeaux 6:266. 1834, *nom. nov.* *Amelanchier* Medic., iter. Merr. Proc. Am. Philos. Soc. 86:88. 1942, *nota*, op. cit. 89, *nom.*=*Amelanchier* Medic. (1789).
- **AMELANCUS* Raf. Fl. Tellur. 3:5. 1836 [1837], *nom. nov.* *Amelanchier* Medic. (1789) (*Amelancus* F. Muell. ex Vollm., 1914)=*prae.*
- AMETRON Raf. Sylva Tellur. 160. 1838, *descr.*; Aut. Bot. 175. 1840, *nom.*=*Rubus* Linn.
- pedatum* Raf. op. cit. 161, *descr.* (*Rubus pedatus* Sm.; Hook. Fl. Am. Bor. 1:181. t. 61. 1834; *Dalibarda pedata* Steph.; *Comaropsis pedata* Ser.). Oregon=*Rubus pedatus* Sm.
- pyrifolium* Raf. l.c., *descr.* (*Rubus pyrifolius* Sm.). India.
- AMPOMELE Raf. Sylva Tellur. 160. 1838, *descr.*; Aut. Bot. 175. 1840, *nom.*=*Rubus* Linn., subgen. *Idaeobatus* Focke.
- triphyla* Raf. l.c., *descr.* (*Rubus triphyllus* Thunb.). Japan=*Rubus parvifolius* Linn.

AMYGDALUS Linn.=Prunus Linn.

- **glabra* DC. ex Raf. Med. Fl. 2:191. 1830, *nom.*, *nota* (nectarine)=*Prunus persica* (Linn.) Batsch. var. *nectarina* (Ait.) Maxim.
- #*APLENTA* Raf. Aut. Bot. 163. 1840, *descr.*, subgen. *Potentilla* Linn.
- **ARODIA* Raf. Specch. Sci. 1:155. 1814, *nom.*; Anal. Nat. Tabl. Univ. 172. 1815, *nom.* (*Rubus* sp.)=*Rubus* Linn.
- ARONIA Pers.=*Amelanchier* Medic. (1789).
- cordata* Raf. Med. Fl. 2:196. 1830, *nom.*=seq.
- subcordata* Raf. ex DC. Prodr. 2:632. 1825, *nom.* in syn. sub *Amelanchier ovalis* DC. var. *subcordata* DC. North America=*Amelanchier arborea* (Michx. f.) Fernald, Rhodora 43:563. 1941.
- ARUNCUS Adans.; Raf. Sylva Tellur. 152. 1838, *descr.*
- americanus* Raf. l.c., *nom.* [*Spiraea aruncus* Linn.]. North America=*Aruncus dioicus* (Walt.) Fernald (*A. allegheniensis* Rydb.).
- vulgaris* Raf. l.c., *nom.* [*Spiraea aruncus* Linn.]. Europe=*Aruncus sylvestris* Kostel. (1844); see Fernald, Rhodora 38:181. 1936.
- ATUNA Raf. Sylva Tellur. 153. 1838, *descr.*=*Parinarium* Juss. (1789) (*Parinari* Aubl., 1775).
- racemosa* Raf. l.c., *descr.* (*Atun* Rumph. Herb. Amb. 1: t. 66. 1741). Moluccas=*Parinarium glaberrimum* Hassk. 1843 (*P. laurinum* A. Gray, 1854); see Merrill, Interpret. Rumph. Herb. Amb. 247. 1917.
- AWAYUS Raf. Sylva Tellur. 151. 1838, *descr.*=*Spiraea* Linn., sect. *Chamaedryon* Seringe (1825).
- japonica* Raf. ex Jacks*. Ind. Kew. 1:255. 1893 (*Spiraea japonica* Raf., non Linn. f.). Japan=*Spiraea thunbergii* Sieb.
- †*BASILIMA* Raf. Specch. Sci. 1:156. 1814, *nom.*; Anal. Nat. Tabl. Univ. 173. 1815, *nom.* (*Spiraea* sp. Linn.); New Fl. N. Am. 3:75. 1836 [1838], *descr.* ("Sorbaria subg. Ser. *Schizonotus* Lindl."); Sylva Tellur. 152. 1838, *descr.*; Good Book 46. 1840, *nom.*=*Sorbaria* A. Br., (1864), *nom. conserv.* (*Basilima* Raf., 1814; *Schizonotus* Lindl., 1829).
- pygmaea* Raf. New Fl. N. Am. 3:76. 1836 [1838], *descr.* (*Spiraea sorbifolia* Linn. var. *pygmaea* Pallas, Fl. Ross. 1:38. t. 25. 1784, in textu var. *pusilla*, in lamina var. *alpina pygmaea*, in ed. alt. var. *alpina*); Sylva Tellur. 152. 1838, *nom.* Siberia (*Sorbaria alpina* Dipp., 1893; *Spiraea pallasii* G. Don, 1832)=*S. grandiflora* (Sweet) Maxim.
- sorbifolia* Raf. op. cit. 75, *descr.* (*Spiraea sorbifolia* Linn.; Pallas, Fl. Ross. 1:38. t. 24. 1784); Sylva Tellur. 152. 1838, *nom.* Siberia and New Siberia (i.e. N. W. America)=*Sorbaria sorbifolia* (Linn.) A. Br. (*Schizonotus sorbifolius* Lindl.).
- **BERNULLIA* Raf. Aut. Bot. 173. 1840, *descr.*=*Bernoullia* Neck. (1791)=*Geum* Linn.
- **acaulis* Raf. l.c., *descr.* (*Geum montanum* Linn. var. "minor" [β] Linn.). Styrian Alps=*Sieversia montana* (Linn.) R. Br.
- **acuminata* Raf. op. cit. 174, *descr.* (*Geum strictum* auct. Am.; *G. canadense* auct. Am.; *Potentilla pensylvanica* auct. Am.). Ohio, Kentucky, Tennessee.
- **confluens* Raf. l.c., *descr.* (*Geum canadense* auct. Am.; *G. strictum* auct. Am.; *G. geniculatum* auct. Am.). Alleghany Mountains of Pennsylvania.
- **heterophylla* Raf. op. cit. 173, *descr.* (*Geum album* auct. Am.; *G. canadense* auct. Am.; *G. virginianum* auct. Am.). Canada to Carolina.
- var. *integrifolia* Raf. op. cit. 174, *descr.*
- **hybrida* Raf. op. cit. 173, *descr.* (*Bernoullia hybrida* Neck.; *Geum rivale* Linn. var. [β] Linn.). Europe=*Geum rivale* Linn.
- **media* Raf. op. cit. 174, *descr.* (*Geum intermedium* sensu Bess.). Siberia.
- **montana* Raf. op. cit. 173, *descr.* (*Geum montanum* Linn.). Alps of Europe=*Sieversia montana* (Linn.) R. Br.
- **nutans* Raf. l.c., *descr.* (*Geum nutans* Raf.; *G. rivale* auct. Am.). North America.
- **reptans* Raf. l.c., *descr.* (*Geum reptans* Linn.; *Bernoullia reptans* Neck.). Alps of Europe=*Sieversia reptans* (Linn.) R. Br.
- **rivalis* Raf. l.c., *nom.* (*Geum rivale* Linn.). Europe.
- BOOTIA Bigel.=*Potentilla* Linn.
- **cymosa* Raf. Aut. Bot. 169. 1840, *descr.* (*Geum rupestre* Raf. vel *G. viscosum* Raf.). Taconic Mountains, New York.

- *sericea Raf. l.c., *descr.* (*Potentilla arguta* Lehm., non Pursh). Upper Missouri, Oregon=? *P. bipinnatifida* Dougl.
- ***BOSSEKIA** sensu Raf. Aut. Bot. 175. 1840, *nom.*, non Neck. (1790)=*Waldsteinia* Willd. (1799).
- fragarioides* Raf. l.c., *descr.* (*Comaropsis fragarioides* Ser.; *Dalibarda fragarioides* Michx.). Alleghany Mountains=Waldsteinia fragarioides (Michx.) Tratt.
- CERASUS** Linn.
- *arenaria Raf. Herb. Raf. 38. 1833, *nom.* Upper Missouri (Mandan country)=Dakota.
- *biflora Raf. op. cit. 56, *nom.* Alleghany Mountains.
- *cuneata Raf. l.c., *nom.* Alleghany Mountains=*Prunus cuneata* Raf. (1820).
- *triflora Raf. l.c., *nom.* Alleghany Mountains=*Prunus triflora* Raf. (1820).
- CERCOCARPUS** H.B.K.
- montanus Raf. Atl. Jour. 1:146. 1832, *nom.* (*Cercocarpus fothersgilloides* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:198. 1827, *descr.*, non H.B.K.). Rocky Mountains (*C. parvifolius* Nutt. 1838).
- #**CHAMEDRYON** Raf. New Fl. N. Am. 3:62, 68. 1836 [1838], *nom.* (*Chamaedryon* Seringe, ut sect. *Spiraea*), sect. vel subgen. *Spiraea* Linn.
- ***CHAMEDRYS** Raf. Act. Soc. Linn. Bordeaux 6:265. 1836, *nom.* (*Chamaedryon* Seringe, ut sect. *Spiraea*), iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 89, *nom.*, non Moench. (1794)=*Spiraea* Linn.
- CHIMANTHUS** Raf. Fl. Ludovic. 26. 1817, *descr.*; Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.*=*Laurocerasus* (Tourn.) Reichb. (1828)=*Prunus* Linn.
- amygdalina Raf. Fl. Ludovic. l.c., *descr.* (*Laurier amande* Rob. Voy. Louis. 3:362. 1807); Med. Fl. 2:208. 1830, *nom.* (*Prunus caroliniana* Ait.); Herb. Raf. 55. 1833, *nom.* Louisiana=*Prunus caroliniana* Ait. (*Laurocerasus caroliniana* (Mill.) M. Roem.).
- CHRYSOBALANUS** Linn.
- incanus Raf. New Fl. N. Am. 3:26. 1836 [1838], *descr.* (*Chrysobalanus oblongifolius* Michx., var.). Florida (*Geobalanus pallidus* Small, 1913).
- prunifolius Raf. l.c., *descr.* Florida=*Chrysobalanus oblongifolius* Michx. (*Geobalanus oblongifolius* Small).
- retusus Raf. l.c., *descr.* Georgia, Alabama=praec.
- COMARUM** Linn.=*Potentilla* Linn.
- †angustifolium Raf. Herb. Raf. 49. 1833, *nom.*; Fl. Tellur. 2:56. 1836 [1837], *descr.*; Aut. Bot. 170. 1840, *nom.*, *nota.* Oregon, Boreal America, Ohio=*Potentilla palustris* (Linn.) Scop.
- var. parvifolium Raf. Aut. Bot. 170. 1840, *descr.* Labrador=*P. palustris* (Linn.) Scop. var. parvifolia (Raf.) Fernald, *Rhodora* 16:10. 1914.
- digitatum Raf. Fl. Tellur. 2:55. 1836 [1837], *descr.* (*Comarum palustre* auct. Am.); Aut. Bot. 170. 1840, *nom.*, *nota.* Canada to New York=*Potentilla palustris* (Linn.) Scop.
- palustre Linn.
- var. stipulatum Raf. Fl. Tellur. l.c., *descr.* Europe
- *tomentosum Raf. Aut. Bot. 170. 1840, *descr.* ([*Comarum palustre* Linn.] var. *villosum* Pers.). Northern Europe=*Potentilla palustris* (Linn.) Scop. var. *villosa* (Pers.) Lehm.
- ***COTONEA** Raf. Fl. Tellur. 3:5. 1836 [1837], *nom.* nov. *Cotoneaster* Linn.
- CUMBATA** Raf. Sylva Tellur. 160. 1838, *descr.*; Aut. Bot. 175. 1840, *nom.*=*Rubus* Linn., subgen. *Malachobatus* Focke.
- alcefolia Raf. l.c., *descr.* (*Rubus alceaefolius* Poir.). Java.
- villosa Raf. l.c., *descr.* (*Rubus rugosus* Sm.). Nepal.
- †**CYLACTIS** Raf. Fl. Ludovic. 167. 1817, *nom.*; Am. Jour. Sci. 1:377. 1819, *descr.*; Jour. Phys. Chim. Hist. Nat. 89:97. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 237. 1820, *descr.*; op. cit. 1822, 2:1322. 1822, *descr.*; Spreng. Neue Entdeck. 2:207. 1821, *nom.*, *nota.*; Act. Soc. Linn. Bordeaux 6:266. 1834, *nom.*, *nota.*=*Rubus* Linn., subgen. *Cylactis* (Raf.) Focke.
- lyncemontana Raf. Jour. Phys. Chim. Hist. Nat. 89:97. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 237. 1820, *descr.* New York (Catskill Mountains)=seq.
- montana Raf. Am. Jour. Sci. 1:377. 1819, *descr.*; Spreng. Neue Entdeck. 2:207. 1821, *nom.*, *nota.*; Isis von Oken 1822, 2:1322. 1822, *descr.*; Aut. Bot. 175. 1840, *nom.*, *nota.* (*Rubus canadensis* sensu Torr.; *R. triflorus* Richards.; *R. saxatilis* sensu Michx.; *R. parviflorus* Nutt.; *R. aegopodioides* Ser.). Canada to the northern Alleghany Mountains=*Rubus pubescens* Raf. (1811) (*R. triflorus* Richards.; *R. americanus* Britton).
- CYLASTIS** Raf. Sylva Tellur. 160. 1838, *descr.*, *sphalm.*=*Cylactis* Raf.=*Rubus* Linn. subgen. *Cylactis* (Raf.) Focke.
- arctica Raf. ex Jacks*. Ind. Kew. 1:680. 1893 (*Rubus arcticus* Linn.). Boreal and Arctic regions.
- egopodioides Raf. ex Jacks*. l.c. (*Rubus aegopodioides* Ser.). North America=*Rubus pubescens* Raf. (*Rubus triflorus* Richards.; *R. americanus* Britton).
- *montana Raf. Sylva Tellur. l.c., *nom.*, *nota.*=*Cylactis montana* Raf.=praec.
- DASIPHORA** Raf. Aut. Bot. 167. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*=*Potentilla* Linn.
- *alba Raf. op. cit. 168 [*Potentilla alba* Linn.]. Alps of Europe.
- *anserina Raf. l.c., *descr.* [*Potentilla anserina* Linn.]. Europe, North America.
- *cristata Raf. l.c., *descr.* Siberia.
- *floribunda Raf. op. cit. 167, *descr.* (*Potentilla floribunda* Pursh). North America=*P. fruticosa* Linn.
- *jacquini Raf. op. cit. 168, *descr.* (*Potentilla caulescens* Linn.). Europe (Austrian Alps).
- *nitida Raf. op. cit. 167, *descr.* (*Potentilla nitida* Linn.). Europe (Tyrol and Carinthia).
- *pimpinelloides Raf. op. cit. 168, *nom.* sub *D. cristata* Raf. [*Potentilla pimpinelloides* Linn.]. Armenia.
- *reptans Raf. l.c., *nom.* (*Potentilla reptans* Linn.). Europe.
- riparia Raf. op. cit. 167, *descr.* (*Potentilla fruticosa* Linn.); Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.* Northern Europe, Siberia=*Potentilla fruticosa* Linn.
- *speciosa Raf. l.c., *descr.* (*Potentilla speciosa* Willd.). Crete.
- *subacaulis Raf. op. cit. 168, *descr.* [*Potentilla subacaulis* Linn.]. Eurasia.
- *valderia Raf. op. cit. 167, *nom.*, *nota.* (*Potentilla valderia* Linn.). Italy.
- ***DICTYSPERMA** Raf. Aut. Bot. 175. 1840, *nom.*=*Dyctisperma* Raf.=*Rubus* Linn.
- ***DIMOPOGON** Raf. ex Rydb. N. Am. Fl. 22:245. 1906, *nom.* in syn., *sphalm.*=seq.
- DRIMOPOGON** Raf. Sylva Tellur. 151. 1838, *descr.*, subgen. *Spiraea* Linn. (Type *Spiraea tomentosa* Linn.)=*Spiraea* Linn.
- douglasii Raf. ex Jacks*. Ind. Kew. 1:799. 1893 (*Spiraea douglasii* Hook.). Western North America.
- ferruginea Raf. ex Jacks*. l.c. (*Spiraea ferruginea* Raf.). Appalachian Mountains, Kentucky=*Spiraea tomentosa* Linn.
- glomerata Raf. ex Jacks*. l.c. (*Spiraea glomerata* Raf.). Alleghany Mountains=*Spiraea tomentosa* Linn.
- menziesii Raf. ex Jacks*. l.c. (*Spiraea menziesii* Hook.). Western North America.
- parvifolia Raf. ex Jacks*. l.c. (*Spiraea parvifolia* Raf.). Canada, New York=*Spiraea tomentosa* Linn.
- rosea Raf. ex Jacks*. l.c. (*Spiraea rosea* Raf.). Kentucky, Alabama=*Spiraea tomentosa* Linn. var. *rosea* (Raf.) Fernald.
- tomentosa Raf. ex Jacks*. l.c. (*Spiraea tomentosa* Linn.). North America.
- ***DRYADEA** Raf. Specch. Sci. 1:155. 1814, *nom.*; Anal. Nat. Tabl. Univ. 172. 1815, *nom.* nov. *Dryas* Linn.
- DRYAS** Linn.
- *crenata Raf. Aut. Bot. 170. 1840, *descr.* Alps of Europe, Canada.
- DRYMOPOGON** Raf. Specch. Sci. 1:156. 1814, *nom.*; Anal. Nat. Tabl. Univ. 173. 1815, *nom.* [*Drymopogon* Rupp., 1745] (*Spiraea* sp. Linn.); New Fl. N. Am. 3:61. 1836 [1838], *nom.*=*Spiraea* Linn.
- DYCTISPERMA** Raf. Sylva Tellur. 159. 1838, *descr.*=*Rubus* Linn.
- apetalum Raf. ex Jacks*. Ind. Kew. 1:805. 1893 (*Rubus apetalus* Poir.). Africa, Bourbon.
- lasiocarpum Raf. ex Jacks*. l.c. (*Rubus lasiocarpus* Sm.). India.
- rigidum Raf. ex Jacks*. l.c. (*Rubus rigidus* Sm.). South Africa.
- urticifolium Raf. ex Jacks*. l.c. (*Rubus urticifolius* Poir.) Peru.
- ELEIOSINA** Raf. Sylva Tellur. 150. 1838, *descr.*=*Sibiraea* Maxim. (1879).

ELEIOSINA (continued).

- altaica* Raf. ex Jacks*. Ind. Kew. 1:829. 1893 (*Spiraea altaica* Pallas). Siberia=*Sibiraea laevigata* (Linn.) Maxim. (*S. altaicensis* C. K. Schneider).
- bracteata* Raf. ex Jacks*. l.c. (*Spiraea bracteata* Raf.). Siberia and "New Siberia" [N.W. America]=*praec.*
- cuneifolia* Raf. ex Jacks*. l.c. (*Spiraea cuneifolia* Raf.). Oregon and California=*Spiraea menziesii* Hook.
- laevigata* Raf. ex Jacks*. l.c. (*Spiraea laevigata* Linn.). Siberia=*Sibiraea laevigata* (Linn.) Maxim.
- obovata* Raf. ex DC. Prodr. 2:544. 1825, in syn. sub *Spiraea salicifolia* Linn. var. *latifolia* Willd. [New York]=*Spiraea salicifolia* Linn.
- triloba* Raf. ex Jacks*. l.c. (*Spiraea triloba* Murr.)=*Spiraea trilobata* Linn. Siberia, China.
- virgata* Raf. ex Jacks*. l.c. (*Spiraea virgata* Raf.). Boreal America and Siberia=*Spiraea hypericifolia* Linn.
- EPICOSTORUS** Raf. Atl. Jour. 1:144. 1832, *descr.*; New Fl. N. Am. 3:74. 1836 [1838], *descr.*; Sylva Tellur. 151. 1838, *descr.*; Good Book 46. 1840, *nom.*=*Physocarpus* (Cambess.) Maxim. (1879), *nom. conserv.* (*Opulaster* Medic., 1799).
- montanus* Raf. Atl. Jour. l.c. *nom.* (*Spiraea monogyna* Torr.); New Fl. N. Am. l.c., *descr.* (*Spiraea monogyna* Torr.); Sylva Tellur. l.c., *nom.* (*Spiraea monogyna* Torr.). Rocky Mountains=*Physocarpus monogynus* (Torr.) Coult. (*Opulaster monogynus* O. Kuntze).
- ***ESPICOSTORUS** Raf. Act. Soc. Linn. Bordeaux 6:266. 1834, *descr.*; Merr. Proc. Am. Philos. Soc. 86:88, 90. 1942, *nom.*, *nota*, *sphalm.*=*Epicostorus* Raf. (1832)=*Physocarpus* (Cambess.) Maxim. (1879), *nom. conserv.* (*Opulaster* Medic., 1799).
- **montanus* Raf. l.c., *nom.*; Merr. l.c., *nom.*=*Epicostorus montanus* Raf.=*Physocarpus monogynus* (Torr.) Coult. (*Opulaster monogynus* O. Kuntze). North America.
- FRAGARIA** Linn.
- **elatior* Raf. Atl. Jour. 1:152. 1832, *descr.* Lake Erie or Lake Ontario.
- ludoviciana* Raf. Fl. Ludovic. 150. 1817, *nom.*, *nota*. Louisiana.
- serotina* Raf. Atl. Jour. 1:152. 1832, *descr.* Lake Erie or Lake Ontario.
- vesca* Linn.
- var. *aprica* Raf. Med. Fl. 1:192. 1828, *descr.*, *iter.* Man. Med. Bot. 192. 1841. New Jersey to Virginia.
- clandestina* Raf. l.c., *descr.* New York, Ohio.
- glabra* Raf. l.c., *descr.* Ohio and Cumberland and Tennessee Rivers.
- pendula* Raf. l.c., *descr.* New England, Pennsylvania.
- pumila* Raf. l.c., *descr.* Virginia.
- sylvatica* Raf. l.c., *descr.* Eastern United States.
- uniflora* Raf. op. cit. 191, fig. 38, *descr.* Eastern United States.
- ***GERVASIA** Raf. Specch. Sci. 1:155. 1814, *nom.*; Anal. Nat. Tabl. Univ. 173. 1815, *nom.* (*Poterium* sp.)=*Poterium* Linn.
- GEUM** Linn.
- **intermedium* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.
- **latifolium* Raf. Aut. Bot. 172. 1840, *descr.* (*G. macrophyllum* Willd.). Siberia.
- **nutans* Raf. Am. Monthly Mag. Crit. Rev. 2:344. 1818, *nom.* (*Geum rivale* sensu Bigelow); Aut. Bot. 173. 1840, *nom.* in syn. sub *Bernullia nutans* Raf. Eastern North America=*Geum rivale* Linn.
- ochroleucum* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Eastern United States.
- **odoratissimum* Raf. Med. Fl. 2:233. 1830, *nom.*=*Geum radiatum* Michx.
- pinnatifidum* Raf. Med. Repos. et Jour. Bot. l.c., *nom.* Eastern United States.
- **renifolium* Raf. Aut. Bot. 172. 1840, *descr.* "Oregon or Siberia."
- **rupestre* Raf. op. cit. 169. 1840, *nom.* in syn. sub *Bootia cymosa* Raf. New York.
- virginianum* Linn.; Raf. Med. Fl. 1:220, fig. 43. 1828, *descr.*, *iter.* Man. Med. Bot. 221. 1841. Eastern United States.
- var. *lanceolatum* Raf. op. cit. 221, *nom.*
- macrophyllum* Raf. l.c., *nom.*
- ochroleucum* Raf. l.c., *nom.*
- ramosum* Raf. l.c., *nom.*
- uniflorum* Raf. l.c., *nom.*

- **viscosum* Raf. Aut. Bot. 169. 1840, *nom.* in syn. sub *Bootia cymosa* Raf. New York.
- ***GEUNCUS** Raf. Aut. Bot. 172. 1840, *nom. nov. provis.* *Geum* Linn.
- ***GEUNSLA** Raf. Aut. Bot. 200. 1840, sub Cent. XIII, *nom. nov.* *Geum* Linn. (non Blume, 1823, nec. Moç. & Sessé, 1828, nec Neck., 1790)=*Geum* Linn.
- GILLENIA** Moench.
- stipulacea* Nutt. Eastern North America.
- var. *pinnatifida* Raf. Med. Fl. 1:226. 1828, *iter.* Man. Med. Bot. 226. 1841, *nom.*; Casket 1830: 376. 1830, *nom.*; Sat. Eve. Post. 9(474): [1]. 1830, *nom.*
- uniflora* Raf. Med. Fl., Man. Med. Bot., et Sat. Eve. Post l.c., *nom.*
- variegata* Raf. l.c., *nom.*
- virgata* Raf. l.c., *nom.*
- ***GOMARUM** Raf. Anal. Nat. Tabl. Univ. 172. 1815, *nom.*, *sphalm.*=*Comarum* Linn.
- ICOTORUS** Raf. Seringe Bull. Bot. 1:216. 1830, *nom.*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 81. 1833=*Physocarpus* (Cambess.) Maxim. (1879), *nom. conserv.* (*Opulaster* Medic., 1799)
- montanus* Raf. l.c., *nom.*, *iter.* Schlecht. l.c. (*Spiraea monogyna* Torr.). Western North America=*Physocarpus monogynus* (Torr.) Coult. (*Neillia monogyna* Greene; *N. torreyi* S. Wats.; *Opulaster monogynus* O. Kuntze).
- MALUS** Linn.
- **fusca* Raf. Herb. Raf. 54. 1833, *nom.* [*Pyrus fusca* Raf.]. Northwestern United States (Lewis & Clark).
- †*microcarpa* Raf. Fl. Ludovic. 171. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:206. 1818, *descr.*; DC. Prodr. 2:632. 1825, *nom.* in syn. sub *Amelanchier ovalis* Raf. var. *subcordata* DC. New York (Fishkill, Newburgh, Catskill)=*Amelanchier arborea* (Michx. f.) Fernald.
- MANTEIA** Raf. Sylva Tellur. 161. 1838, *descr.*; Aut. Bot. 175. 1840, *nom.*=*Rubus* Linn.
- acaulis* Raf. Sylva Tellur. l.c., *nom.* (*Rubus acaulis* Michx.; *R. stellatus* Sm. Exot. Bot. 2: t. 86. 1806-07). Boreal and Arctic regions=*Rubus acaulis* Michx.
- stellatus* Raf. l.c., *nom.* (*Rubus stellatus* Sm. Pl. Ic. Ined. 3: t. 64. 1791). North America.
- #**MARUM** Raf. Fl. Tellur. 3:85. 1836 [1837], *descr.*, subgen. *Chamedrys* Raf.=*Spiraea* Linn.
- ***OLIGACIS** Raf. Specch. Sci. 1:155. 1814, *nom.*; Anal. Nat. Tabl. Univ. 172. 1815, *nom.* "*R[ubus]* sp." Linn.; Am. Jour. Sci. 1:377. 1819, *nom.*=*Rubus* Linn.
- ***OROSPODIA** Raf. Atl. Jour. 1:182. 1833, *descr.*; Act. Soc. Linn. Bordeaux 6:265. 1834, *descr.*, *iter.* Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.*; Herb. Raf. 55. 1833, *nom.* (Type *Prunus rotundifolia* Raf., *P. corymbosa* Raf.)=*Prunus* Linn.
- **rotundifolia* Raf. Herb. Raf. 53. 1833, *nom.*, *nota* [*Prunus rotundifolia* Raf.]. Cult. Philadelphia.
- PADUS** Linn.=*Prunus* Linn.
- **maritima* Raf. Herb. Raf. 56. 1833, *nom.* [*Prunus maritima* Wagenh.]. Atlantic shores of North America.
- **odorata* Raf. l.c., *nom.* Appalachian Mountains.
- **salicifolia* Raf. l.c., *nom.* Alleghany Mountains.
- PANCOVIA** Heist.; Raf. Fl. Tellur. 2:55. 1836 [1837], sub *Comarum* Linn.; Sylva Tellur. 159. 1838, *nom.*, *nota*=*Potentilla* Linn.
- angustifolia* Raf. Fl. Tellur. 2:56. 1836 [1837], *nom. alt.* *Comarum angustifolium* Raf. Oregon or northwestern America=*Potentilla palustris* (Linn.) Scop.
- digitata* Raf. op. cit. 55, *nom. alt.* *Comarum digitatum* Raf. (*Comarum palustre* sensu bot. Am.). North America=*Potentilla palustris* (Linn.) Scop.
- palustris* Raf. l.c., *nom. alt.* *Comarum palustre* Linn.; Jacks. Ind. Kew. 2:406. 1894; Nieuwl. Am. Midl. Nat. 4:68. 1915. Europe=*Potentilla palustris* (Linn.) Scop.
- #**PENTORILA** Raf. Aut. Bot. 163. 1840, *descr.*, subgen. *Potentilla* Linn. (Type *Potentilla dichotoma* Raf.).
- ***PHYLOCARPUS** Raf. Act. Soc. Linn. Bordeaux 6:265. 1834, *sphalm.* vel *nom. nov.* *Physocarpus* Cambess. 1824 (pro sect. *Spiraea* Linn.); *iter.* Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.*=*Physocarpus* (Cambess.) Maxim. (1879), *nom. conserv.* (*Opulaster* Medic., 1799).
- PHYSOCARPA** Raf. New Fl. N. Am. 3:73. 1836 [1838], *descr.*, subgen. *Spiraea* Linn. (*Spiraea* Linn. sect. *Physocarpus* Ser., 1824); Sylva Tellur. 151. 1838, *descr.*, pro gen.=*Physocarpus* (Cambess.) Maxim. (1879), *nom. conserv.* (*Opulaster* Medic., 1799).

- glabra* Raf. New Fl. l.c., *nom. alt.* *P. opulifolia* Raf. (*Spiraea opulifolia* Linn. var. *glabra* Hook.). Europe, Siberia, Oregon=*Physocarpus opulifolius* (Linn.) Maxim.
- opulifolia* Raf. l.c., *descr.*; Sylva Tellur. 151. 1838, *nom.* (*Spiraea opulifolia* Linn.). Europe, Siberia, Oregon=*Physocarpus opulifolius* (Linn.) Maxim.
- riparia* Raf. l.c., *descr.* (*Spiraea opulifolia* Linn. var. *tomentella* DC.); Sylva Tellur. 151. 1838, *nom.* Canada to Louisiana and Missouri=*Physocarpus opulifolius* (Linn.) Maxim. (*Opulaster opulifolius* O. Kuntze).
- var. *arborea* Raf. l.c., *nom.*
- var. *parvifolia* Raf. l.c., *nom.*
- tomentosa* Raf. op. cit. 74, *descr.*; Sylva Tellur. 151. 1838, *nom.* (*Spiraea capitata* Pursh; *S. opulifolia* Linn. var. *tomentosa* Hook.). Oregon=*Physocarpus capitatus* (Pursh) O. Kuntze.
- ***PHYSOTHECA** Raf. New Fl. N. Am. 3:73. 1836 [1838], *nom. alt.* *Physocarpa* Raf.=*Physocarpus* (Cambess.) Maxim. (1879), *nom. conserv.* (*Opulaster* Medic., 1799).
- POTENTILLA** Linn.
- angustifolia* Raf. Fl. Tellur. 2:56. 1836 [1837], *nom. alt.* *Comarum angustifolium* Raf. Northwestern United States =*P. palustris* (Linn.) Scop.
- **argyrops* Raf. Aut. Bot. 165. 1840, *descr.* (*P. argentea* auct. Am.). New England, New York=*Potentilla argentea* Linn.
- **atrosanguinea* Raf. l.c., *descr.* Himalayan Mountains.
- **canescens* Raf. op. cit. 166. 1840, *descr.* (*P. canescens* Bess.). Bohemia.
- **cespitosa* Raf. op. cit. 164, *descr.* Alleghany Mountains.
- **ciliata* Raf. op. cit. 163, *descr.* Labrador=*P. maculata* Pourret.
- **cinerea* Raf. op. cit. 165, *nom. sub* *P. argyrops* Raf., non *P. cinerea* Chaix=*P. argentea* Linn.
- **dichotoma* Raf. op. cit. 163, *descr.* Oregon.
- digitata* Raf. Fl. Tellur. 2:55. 1836 [1837], *nom. alt.* *Comarum digitatum* Raf. United States, Canada=*Potentilla palustris* (Linn.) Scop.
- **egyptiaca* Raf. Aut. Bot. 166. 1840, *descr.* Egypt.
- **flexuosa* Raf. op. cit. 164, *descr.* Labrador.
- **gracilis* Raf. Herb. Raf. 49. 1833, *nom.* Rocky Mountains or Oregon.
- **nepalensis* Raf. Aut. Bot. 165. 1840, *descr.* Nepal and the Himalayan Mountains.
- **pallida* Raf. op. cit. 166, *descr.* Carpathian Mountains.
- **pectinata* Raf. Herb. Raf. 38. 1833, *nom.*; Aut. Bot. 164. 1840, *descr.* Boreal America and Upper Missouri (Mandan country)=*Dakota* (*P. littoralis* Rydb., 1896).
- POTERIUM** Linn.=*Sanguisorba* Linn.
- **angustifolium* Raf. Aut. Bot. 170. 1840, *descr.* Sicily and Greece.
- **heterophyllum* Raf. op. cit. 171, *descr.* Alps of Bavaria and Austria.
- **microphyllum* Raf. l.c., *descr.* Scotland, Norway.
- PRUNUS** Linn.
- **aurantiaca* Raf. Herb. Raf. 56. 1833, *nom.*; Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.*; Merr. Proc. Am. Philos. Soc. 86:87, 90. 1942, *nom.* Kentucky.
- coccinea* Raf. Fl. Ludovic. 135. 1817, *descr.* ("Plumb," Bartram Trav. 423. 1791); Med. Fl. 2:253. 1830, *nom.*; Herb. Raf. 55. 1833, *nom.* Alabama or Louisiana (Pearl Island)=*P. americana* Marsh.
- **corymbosa* Raf. Atl. Jour. 1:182. 1833, *nom. nov.* *Prunus rotundifolia* Raf. Rocky Mountains.
- †*cuneata* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*; Ann. Nat. Ann. Synop. 11. 1820, *descr.* Alleghany Mountains of Pennsylvania=*P. pumila* Linn. var. *cuneata* (Raf.) L. H. Bailey=*P. susquehannae* Willd. (1809).
- **missurica* Raf. Herb. Raf. 56. 1833, *nom.* Missouri.
- **patula* Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.* Kentucky.
- **pendula* Raf. Western Rev. Miscel. Mag. 2:93. 1819, *nom.*; Herb. Raf. 56. 1833, *nom.* Wasioto or Cumberland Mountains and Kentucky.
- †*rotundifolia* Raf. Med. Fl. 2:253. 1830, *nom.*; Atl. Jour. 1:78. 1832, *descr.* Rocky Mountains=*Prunus corymbosa* Raf.
- **rupestris* Raf. Fl. Ludovic. 171. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:206. 1818, *descr.* Catskill Mountains, New York.
- **sessilis* Raf. Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.* (*sphalm. sessilis*); Merr. Proc. Am. Philos. Soc. 86:87, 90. 1942, *nom.* Eastern North America.
- **sessilifolia* Raf. Herb. Raf. 56. 1833, *nom.* Pine barrens [New Jersey].
- stenophylla* Raf. Fl. Ludovic. 98. 1817, *descr.* (*Cerasus canadensis* sensu Rob. Voy. Louis. 3:495. 1807); Med. Fl. 2:253. 1830, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* (*stenophylla*). Louisiana=*P. angustifolia* Marsh.
- triflora* Raf. Ann. Nat. Ann. Synop. 11. 1820, *descr.* Pennsylvania.
- **versicolor* Raf. Med. Fl. 2:253. 1830, *nom.* North America.
- PYRUS** Linn.
- fusca* Raf. Med. Fl. 2:254. 1830, *nom. subnud.*, *sphalm. fusea* "Oregon Crabapple." Northwestern North America=*Malus fusca* (Raf.) Raf. Herb. Raf. 54. 1833; Schneider III. Handb. Laubh. 1:723. 1906; Repert. Sp. Nov. 3:178. 1906 (*Pyrus rivularis* Dougl.; *Malus rivularis* M. Roem.).
- **fusca* Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.* Northwestern United States (Lewis & Clark)=*praeac.*
- ludoviciana* Raf. Fl. Ludovic. 158. 1817, *nom. provis.*, *nota.* Northwestern Louisiana.
- **pirainus* Raf. Specch. Sci. 2:173. 1814, *descr.* Sicily. Prob. =*Pyrus amygdaliformis* Vill. var. *cuneifolia* (Vis.) Bean.
- pyrainia* Raf. ex Gussone, Fl. Sic. Syn. 2:831. 1843=*praeac.*
- QUINASIS** Raf. Sylva Tellur. 150. 1838, *descr.*=*Polylepis* Ruiz & Pavon (1794).
- villosa* Raf. l.c., *descr.* (*Polylepis villosa* H.B.K.). Peru.
- ***RHODALIX** Raf. Specch. Sci. 1:156. 1814, *nom.*; Anal. Nat. Tabl. Univ. 173. 1815, *nom.* (*Spiraea* sp.); Sylva Tellur. 152. 1838, *nom. sub* *Thecanisia* Raf.; New Fl. N. Am. 3:61. 1836 [1838], *nom.*=*Spiraea* Linn.
- ROSA** Linn.¹⁵
- acuminata* Raf. Ann. Gén. Sci. Phys. 5:216. 1820, *descr.*; Kentucky Gaz. 36(32):[3]. 1822, *nom.* Indiana=? R. dasistema Raf.
- **aquatica* Raf. Ann. Gén. Sci. Phys. op. cit. 219, *nom. nov.* *Rosa palustris* sensu Dum. Cours.
- carolina* Linn.; Raf. op. cit. 214, *descr.* Eastern North America.
- var. *alba* Raf. l.c., *descr.*
- corymbosa* Raf. l.c., *descr.*
- erecta* Raf. l.c., *descr.*
- hispida* Raf. l.c., *descr.*
- patula* Raf. l.c., *descr.*
- pimpinellifolia* Raf. l.c., *descr.*
- uniflora* Raf. l.c., *descr.*
- **collina* Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*
- cursor* Raf. Ann. Gén. Sci. Phys. 5:215. 1820, *descr.*; Kentucky Gaz. 36(32):[3]. 1822, *nom.*; First Cat. l.c., *nom.* Cumberland Mountains, Kentucky=*R. setigera* Michx. var. *tomentosa* Torr. & Gray.
- dasistema* Raf. Ann. Gén. Sci. Phys. 5:219. 1820, *descr.*; Kentucky Gaz. l.c., *nom.* Ohio, Indiana. (West Virginia to Indiana and Missouri; Rydb. N. Am. Fl. 22:497. 1918).
- elegans* Raf. op. cit. 214, *descr.*; Kentucky Gaz. l.c., *nom.* New York (Hudson River)=*R. palustris* Marsh.
- enneaphylla* Raf. Précis Découv. Somiol. 35. 1814, *descr.*; Jour. Bot. (Desv.) 4:268. 1814, *descr.*; Ann. Gén. Sci. Phys. 5:214. 1820, *descr.*; Kentucky Gaz. l.c., *nom.* Pennsylvania, Ohio=*R. palustris* Marsh.
- flexuosa* Raf. Précis, et Jour. Bot. II.cc., *descr.*; Ann. Gén. Sci. Phys. 5:216. 1820, *descr.*; Kentucky Gaz. l.c., *nom.* Maryland=*R. canina* Linn.
- glandulosa* Raf. Ann. Gén. Sci. Phys. 5:213. 1820, *descr.* New York=? *R. palustris* Marsh.
- var. *cuneifolia* Raf. l.c., *descr.*
- globosa* Raf. op. cit. 215, *descr.*; Kentucky Gaz. l.c., *nom.* Indiana, Illinois=? *R. palustris* Marsh.
- kentuckensis* Raf. op. cit. 213, *descr.*; Kentucky Gaz. l.c., *nom.* Kentucky=*R. setigera* Michx. var. *tomentosa* Torr. & Gray.
- **levigata* Raf. op. cit. 218, *descr.* Pennsylvania, New Jersey, Ohio=*R. laevigata* Michx.
- lucida* Ehrh. Eastern North America.
- var. *glauca* Raf. op. cit. 217, *descr.*
- uniflora* Raf. l.c., *descr.*
- †*macrocarpa* Raf. Med. Fl. 2:258. 1830, *descr.* (Ind. Kew. 2:735. 1895 "Nutt. ex Raf.") non Mérat (1812). North America=*R. spauldingii* Crépin (1876).

¹⁵ See Zable, H. Rafinesque'sche Rosen-spezies. Mitt. Deutsch. Dendr. Ges. 1899:76-77. 1899; a criticism.

ROSA (continued).

- †*nivea* Raf. Ann. Gén. Sci. Phys. 5:218. 1820, *descr.*; Kentucky Gaz. l.c., *nom.*, *nota*. Illinois (*R. rafinesquii* Seringe, 1825, non DC., 1817), sp. dub.
- obovata* Raf. op. cit. 217, *descr.*; Kentucky Gaz. l.c., *nom.*, *nota*. New York (Catskill Mountains)=*R. carolina* Linn. var. *grandiflora* (Bak.) Rehd.
- parviflora* Ehrh. Eastern North America=*R. virginiana* Mill. var. *angustifolia* Raf. op. cit. 212, *descr.*
- clandestina* Raf. l.c., *descr.*
- glabra* Raf. l.c., *descr.*
- pectinata* Raf. l.c., *descr.*
- pubera* Raf. l.c., *descr.*
- pratensis* Raf. op. cit. 215, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Kentucky Gaz. l.c., *nom.* Indiana, Illinois, Kentucky=*R. carolina* Linn. var. *geminata* Raf. Ann. Gén. Sci. Phys. l.c., *descr.*
- pusilla* Raf. Ann. Nat. Ann. Synop. 11. 1820, *descr.*; Ann. Gén. Sci. Phys. 5:220. 1820, *descr.*; Kentucky Gaz. l.c., *nom.* Western Kentucky=*R. carolina* Linn. var. *villosa* (Best) Rehder.
- **pygmaea* Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.* Kentucky.
- riparia* Raf. Ann. Gén. Sci. Phys. 5:216. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Kentucky Gaz. l.c., *nom.*, *nota*. Potomac River near Cumberland=? seq.
- var. *amena* Raf. Ann. Gén. Sci. Phys. l.c., *descr.*
- serrulata* Raf. op. cit. 218, *descr.*; Kentucky Gaz. l.c., *nom.* New York (Catskill Mountains). Sp. dub.; see Fernald, Rhodora 50:146. 1948.
- var. *rotundifolia* Raf. l.c., *descr.*
- setigera* Michx. Eastern North America.
- var. *pubescens* Raf. op. cit. 213, *descr.* Virginia and Carolina.
- suaveolens* Pursh. Eastern North America.
- var. *alba* Raf. op. cit. 218, *descr.* Pennsylvania, New Jersey, Ohio.
- glauca* Raf. l.c., *descr.*
- **trifoliata* Raf. Ann. Gén. Sci. Phys. 5:213. 1820, *descr.*; Kentucky Gaz. l.c., *nom.* Kentucky=*R. setigera* Michx.
- **viscida* Raf. Kentucky Gazette 36(32):[3]. 1832, *descr.* Ex *descr.*=*R. virginiana* Mill.
- RUBUS** Linn.
- **ambiguus* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
- angulatus* Raf. Fl. Ludovic. 98. 1817, *descr.* (*Ronce 2*, Rob. Voy. Louis. 3:495. 1807). Louisiana.
- **egopodioides* Raf. Sylva Tellur. 160. 1838, *nom.*; Aut. Bot. 175. 1840, *nom.*=*R. aegopodioides* Ser.=*R. pubescens* Raf.
- nitidus* Raf. Fl. Ludovic. 98. 1817, *descr.* (*Ronce 1*, Rob. l.c.). Louisiana=*R. trivialis* Michx.
- **parvifolius* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
- pubescens* Raf. Med. Repos. III. 2:333. 1811, *nom. nov.* *R. saxatilis* Michx. (*R. saxatilis* sensu Bigel.; *R. triflorus* Richards.; *R. canadensis* Torr.; *R. aegopodioides* Ser.; *R. americanus* Britton).
- **serotinus* Raf. Herb. Raf. 54. 1833, *nom.* Northwestern United States (Lewis & Clark).
- SANGUISORBA** Linn.
- **nudicaulis* Raf. Aut. Bot. 172. 1840, *descr.* (*Sanguisorba officinalis* Linn., "var."). Carpathian Mountains.
- palustris* Raf. Atl. Jour. 1:153. 1832, *descr.*; Herb. Raf. 68. 1833, *nom.*; Aut. Bot. 171. 1840, *descr.* Alleghany Mountains of Pennsylvania=*S. canadensis* Linn.
- **stipulata* Raf. Herb. Raf. 47, *descr.*, 49, *nom.*, 1833; Aut. Bot. 171. 1840, *descr.* (*S. officinalis* Linn. var. *auriculata* All.). Oregon, Siberia ex Aut. Bot. (*Sanguisorba sitchensis* C. A. Mey., 1856; *S. latifolia* Coville, 1896); see Fernald, Rhodora 48:12. 1946.
- SCHIZONOTUS** Raf. New Fl. N. Am. 3:74. 1836 [1838], *descr.*; Sylva Tellur. 151. 1838, *descr.*; Good Book 46. 1840, *nom.*=*Holodiscus* Maxim. (1879), *nom. conserv.* (*Schizonotus* Raf., 1838).
- discolor* Raf. op. cit. 75, *descr.*, 152, *nom.* (*Spiraea discolor* Pursh; *S. ariaefolia* Sm.; Lindl. Bot. Reg. 16: t. 1365. 1830). Northwestern United States=*Holodiscus discolor* (Pursh) Maxim. (*Sericotheca discolor* Rydb.).
- SELNORITION** Raf. Sylva Tellur. 160. 1838, *descr.*; Aut. Bot. 175. 1840, *nom.*=*Rubus* Linn., subgen. *Eubatus* Focke.

- canadensis* Raf. ex Jacks*. Ind. Kew. 2:866. 1895 (*Rubus canadensis* Linn.). Eastern North America.
- caesius* Raf. ex Jacks*. l.c., *nom.* (*Rubus caesius* Linn.). Europe.
- obovalis* Raf. ex Jacks*. l.c., *nom.* (*Rubus obovalis* Michx.). Eastern North America=*Rubus hispidus* Linn.
- saxatilis* Raf. ex Jacks*. l.c., *nom.* (*Rubus saxatilis* Linn.). Boreal and Arctic regions.
- SERICOTHECA** Raf. Sylva Tellur. 152. 1838, *descr.*=*Holodiscus* Maxim. (1879), *nom. conserv.* (*Schizonotus* Raf., 1838).
- argentea* Raf. ex Jacks*. Ind. Kew. 2:885. 1895 (*Spiraea argentea* Linn. f. [sensu H.B.K. Nov. Gen. Sp. Pl. 6:235 (ed. folio 6:186) t. 562. 1823]). Colombia=*Holodiscus argentea* (Linn. f.) Kunth.
- ***SESTINIA** Raf. Specch. Sci. 1:155. 1814, *nom.*; Anal. Nat. Tabl. Univ. 173. 1815, *nom. nov.* *Aremonia* Neck.=*Agri-moniam* Linn.
- SORBUS** Linn.
- humifusa* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 290. 1878, *nom.*=seq.
- pumila* Raf. Med. Fl. 2:265. 1830, *nom.*, *nota*; Herb. Raf. 54. 1833, *nom.* Oregon (Lewis & Clark)=*Sorbus occidentalis* (Wats.) Greene.
- †*triparia* Raf. Herb. Raf. 56. 1833, *nom.*; New Fl. N. Am. 3:15. 1836 [1838], *descr.* Indiana, Ohio, Illinois, Missouri=*Sorbus americana* Marsh (vix *S. decora* Schneider !).
- SPHENISTA** Raf. Sylva Tellur. 90. 1838, *descr.*=*Hirtella* Linn.
- peruviana* Raf. op. cit. 91, *nom.* (*Hirtella peruviana* Pers.; *H. racemosa* Ruiz & Pavon; *Cosmibuena* Ruiz & Pavon). Peru=*Hirtella cosmibuena* Lam.
- SPIRAEA** Linn. (See *Spirea* Pallas) ¹⁶
- corymbosa* Raf. Jour. Bot. (Desv.) 4:268. 1814, *descr.*: Loud. Gard. Mag. 8:246. 1832, *nom.*, iter. Schlecht, Linnaea 8: Lit.-Ber. 70. 1833, iter. Britten, Jour. Bot. 38:226. 1900. Virginia.
- ***SPIRAEA** Raf. New Fl. N. Am. 3:62. 1836 [1838], *nom. nov. provis.* *Spirea* Pallas=*Spiraea* Linn.
- SPIREA** Pallas; Raf. Précis Découv. Somiol. 36. 1814, *nom.*; Anal. Nat. Tabl. Univ. 173. 1815, *nom.*; Med. Fl. 2:91. 1830, *descr.*; Herb. Raf. 55. 1833, *nom.* Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.*, *nota*; Sylva Tellur. 150. 1838, *descr.*; New Fl. N. Am. 3:62. 1836 [1838], *descr.*=*Spiraea* Linn.
- †*amena* Raf. Herb. Raf. 59. 1833, *nom.*; Sylva Tellur. 150. 1838, *nom.*; New Fl. N. Am. 3:65. 1836 [1838], *descr.* New Jersey to Kentucky=*Spiraea latifolia* (Ait.) Borkh. var. *pauciflora* Raf. New Fl. N. Am. l.c., *descr.* (*S. salicifolia* Linn. var. β Pallas, Fl. Ross. 1:36. t. 22. 1784). Siberia=*Spiraea salicifolia* Linn.
- bracteata* Raf. New Fl. N. Am. 3:67. 1836 [1838], *descr.* (*S. laevigata* Linn.?). Sylva Tellur. 151. 1838, *nom.* Siberia "and New Siberia" i.e. N. W. America.=*Spiraea laevigata* (Linn.) Maxim. (*S. altaiensis* C. K. Schneider).
- †*ciliata* Raf. Herb. Raf. 49, 58, *nom.* 1833; New Fl. N. Am. 3:66. 1836 [1838], *descr.* (*Spiraea salicifolia* sensu Ell.); Sylva Tellur. 150. 1838, *nom.* Indiana to Carolina=*Spiraea alba* Du Roi.
- var. *multiflora* Raf. l.c., *descr.*
- petiolata* Raf. l.c., *descr.*
- corymbosa* Raf. Précis Découv. Somiol. 36. 1814, *descr.*; Jour. Bot. (Desv.) 4:268. 1814, *descr.* (*Spiraea*); First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Med. Fl. 2: 265. 1830, *nom.*; Herb. Raf. 59. 1833, *nom.*; Sylva Tellur. 151. 1838, *nom.*; New Fl. N. Am. 3:70. 1836 [1838], *descr.* Alleghany Mountains of Pennsylvania, Maryland and Virginia.

¹⁶ Rafinesque deliberately used the form *Spirea*, originally utilized by Pallas, and published thirty-one binomials in one form or another; see *Spirea* Pallas, where these are entered. Most of these appear in Index Kewensis 2:964-965. 1895 under *Spiraea* Linn., and in the present work they are not indicated as new binomials "Raf. ex Jacks*" although strictly speaking they should be. The few marked with an asterisk under *Spirea* Pallas do not appear in Index Kewensis under *Spiraea*. The one here listed under *Spiraea* Linn. was due to Desvauz's editing Rafinesque's text.

- crenata* Linn. var. *sibirica* Raf. New Fl. N. Am. 3:66. 1836 [1838], *descr.* (*Spiraea crenata* "var." Pallas, Fl. Ross. 1:36. t. 26. f. 2. 1784, sub. *Spiraea alpina* Pallas). Siberia=*Spiraea crenata* Linn.
- **cuneata* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- †*cuneifolia* Raf. Herb. Raf. 9. 1833, *descr.*; New Fl. N. Am. 3:67. 1836 [1838], *descr.*; Sylva Tellur. 151. 1838, *nom.* "Oregon and New Albion" [Oregon and California]=*S. menziesii* Hook.
- daurica* Raf. New Fl. N. Am. 3:69. 1836 [1838], *descr.* (*Spiraea chamaedrifolia* Linn. "var."; Pallas, Fl. Ross. 1:32. t. 15. 1784). Siberia=*Spiraea media* Schmidt.
- denticulata* Raf. New Fl. N. Am. 3:71. 1836 [1838], *descr.* (*Spiraea crenata* Pallas, Fl. Ross. 1:35. t. 19. 1784); Sylva Tellur. 151. 1838, *nom.* Siberia "and probably New Siberia" i.e. Northwestern America=*Spiraea crenata* Linn.
- †*ferruginea* Raf. Herb. Raf. 59. 1833, *nom.*; New Fl. N. Am. 3:63. 1836 [1838], *descr.* (*ferruginea*); Sylva Tellur. 151. 1838, *nom.* Wasioto and Appalachian Mountains and eastern Kentucky=*Spiraea tomentosa* Linn.
- var. *angustifolia* Raf. New Fl. N. Am. l.c., *descr.* Pine barrens of New Jersey.
- flexuosa* Raf. New Fl. N. Am. 3:64. 1836 [1838], *descr.* (*Spiraea salicifolia* auct. Am.); Sylva Tellur. 150. 1838, *nom.* Canada to Virginia=*Spiraea alba* Du Roi.
- **glauca* Raf. New Fl. N. Am. 3:70. 1836 [1838], *nom. nov. provis.* *S. corymbosa* Raf.=*Spiraea corymbosa* Raf. Eastern North America.
- †*glomerata* Raf. Herb. Raf. 59. 1833, *nom.*; New Fl. N. Am. 3:63. 1836 [1838], *descr.* (*S. tomentosa* sensu Raf. Med. Fl. 2:91. t. 88. 1830); Sylva Tellur. 151. 1838, *nom.* Alleghany Mountains=*Spiraea tomentosa* Linn.
- var. *cinerea* Raf. New Fl. N. Am. l.c., *descr.* New Jersey.
- major Raf. l.c., *nom.*
- pallida Raf. l.c., *nom.*
- †*heterophylla* Raf. Herb. Raf. 58. 1833, *nom.*; New Fl. N. Am. 3:65. 1836 [1838], *descr.*; Sylva Tellur. 150. 1838, *nom.* Alleghany Mountains and Alabama=*S. latifolia* (Ait.) Borkh.
- hookeriana* Raf. New Fl. N. Am. 3:73. 1836 [1838], *nom. nov. provis.* *S. virgata* Raf. var. *hookeriana* Raf. Northwestern North America=*S. hypericifolia* Linn.
- italica* Raf. op. cit. 72. *descr.* (*Spiraea hypericifolia folio non crenato* Bocc. Mus. Pl. Rar. 137. t. 96. f. [1]. 1697; *Spiraea hypericifolia* sensu Sm. in Rees Cyclop.). Italy.
- japonica* Raf. op. cit. 71, *descr.* (*Spiraea crenata* Thunb., non Linn. f.). Japan=*Spiraea thunbergii* Siebold=*S. cantoniensis* Lour.
- laciniata* Raf. l.c., *nom. nov. provis.*, *nota* sub *Spiraea denticulata* Raf. (*Spiraea crenata* Pallas Fl. Ross. 1:35. 1784, "var."). Siberia=? *Spiraea hypericifolia* Linn.
- **levigata* Raf. Sylva Tellur. 151. 1838, *nom.* Siberia=*Spiraea laevigata* Linn.=*Sibiraea laevigata* (Linn.) Maxim.
- †*obovata* Raf. Fl. Ludovic. 171, 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:206. 1818, *descr.*, DC. Prodr. 2:544. 1825, *nom.* in syn. sub *Spiraea salicifolia* Linn. var. *latifolia* DC.; Herb. Raf. 58. 1833, *nom.*; New Fl. N. Am. 3:66. 1836 [1838], *descr.* (*Spiraea crenata* sensu Torr.; *S. hypericifolia* Linn. "var." Beck; *S. chamaedrifolia* sensu Pursh); Sylva Tellur. 151. 1838, *nom.* New York (Mat-tawan and Kiskanom Mountains)=*Spiraea latifolia* (Ait.) Borkh.
- var. *sibirica* Raf. New Fl. N. Am. 3:66. 1836 [1838], *nom.*, *nota.* (*Spiraea*, s.n. Pallas Fl. Ross. 1: t. 26. f. 2. 1784). Siberia.
- †*stryfolia* Raf. Sylva Tellur. 151. 1838, *nom.*; New Fl. N. Am. 3:69. 1836 [1838], *descr.* (*Spiraea betulifolia* sensu Pursh, non Pallas). Alleghany Mountains of Virginia=*Spiraea corymbosa* Raf.
- var. *pumila* Raf. New Fl. N. Am. l.c., *descr.* Wasioto (Cumberland) Mountains.
- ovata* Raf. Sylva Tellur. 150. 1838, *nom.*; New Fl. N. Am. 3:65. 1836 [1838], *descr.* Alleghany, Cumberland and Appalachian Mountains=*S. latifolia* (Ait.) Borkh.
- †*parvifolia* Raf. Herb. Raf. 59. 1833, *nom.*; New Fl. N. Am. 3:63. 1836 [1838], *descr.*; Sylva Tellur. 151. 1838, *nom.* Canada, Lake Champlain, Saranac and Oquago Mountains (New York)=*Spiraea tomentosa* Linn.
- pulverulenta* Raf. New Fl. N. Am. 3:71. 1836 [1838], *nom. nov. provis.* *Spiraea crenata* Linn. Europe.
- repens* Raf. New Fl. N. Am. 3:70. 1836 [1838], *descr.* (*Spiraea corymbosa* sensu Torr., Beck, et Eaton); Sylva Tellur. 151. 1838, *nom.* Lake Champlain, Saranac and Oquago Mountains (New York)=*S. corymbosa* Raf.
- var. *pubescens* Raf. New Fl. N. Am. l.c., *descr.*
- reticulata* Raf. New Fl. N. Am. 3:72. 1836 [1838], *nom. alt.* *S. italica* Raf. Italy.
- †*rosea* Raf. Herb. Raf. 59. 1833, *nom.*; New Fl. N. Am. 2: 62. 1836 [1838], *descr.*; Sylva Tellur. 151. 1838, *nom.* Western Kentucky to Alabama=*Spiraea tomentosa* Linn., var. *rosea* (Raf.) Fernald, Rhodora 14:190. 1912.
- sibirica* Raf. New Fl. N. Am. 3:64. 1836 [1838], *descr.*, *nom. nov. provis.* *Spiraea salicifolia* Linn. var. *sibirica* Pallas, Fl. Ross. 1:36. t. 21. 1784. Siberia=*Spiraea salicifolia* Linn.
- tomentosa* Linn. North America.
- var. *albiflora* Raf. Med. Fl. 2:92. 1830, *nom.*; New Fl. N. Am. 3:62. 1836 [1838], *nom.*
- elator Raf. New Fl. N. Am. l.c., *nom.*
- ferruginea* Raf. Med. Fl. 2:92. 1830, *nom.*
- paniculata Raf. l.c., *nom.*
- pumila Raf. l.c., *nom.*
- ramosa Raf. New Fl. N. Am. l.c., *nom.*
- virgata Raf. Med. Fl. l.c., *nom.*; New Fl. N. Am. l.c., *descr.* Carolina and Appalachian Mountains.
- versifolia* Raf. New Fl. N. Am. 3:68. 1836 [1838], *descr.* (*Spiraea chamaedrifolia* sensu Pallas, Fl. Ross. 1:32. t. 15. 1784); Sylva Tellur. 151. 1838, *nom.* Siberia and New Siberia, i.e. Northwest America=? *Spiraea media* Schmidt.
- virgata* Raf. New Fl. N. Am. 3:72. 1836 [1838], *descr.* (*Spiraea hypericifolia* Linn. et var. *plukenetiana* DC.); Sylva Tellur. 151. 1838, *nom.* Boreal America and "New Siberia," i.e. Northwestern North America=*Spiraea hypericifolia* Linn.
- var. *hookeriana* Raf. New Fl. l.c., *descr.* Northwestern North America=*Spiraea hookeriana* Raf. op. cit. 73=*S. hypericifolia* Linn.
- ***SPIRENIA** Raf. New Fl. N. Am. 3:62. 1836 [1838], *nom.*, *sphalm.*=*Spiraria* Ser. (1825) pro sect. *Spiraea* Linn.=*Spiraea* Linn.
- #**SPONDOLOBUS** Raf. New Fl. N. Am. 3:26. 1836 [1838], *nom.*, *nota*, subgen. *Chrysobalanos* Linn. (Type *C. pruniflorus* Raf.)=*Chrysobalanus* Linn. (*Geobalanus* Small, 1913).
- STREPTILON** Raf. Aut. Bot. 173. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48: 95. 1921, *nom.*=*Geum* Linn.
- odoratum Raf. l.c., *nom.* (*Geum urbanum* Linn.); Pennell, l.c., *nom.* Europe.
- ***STYLIPUS** Raf. Herb. Raf. 60. 1833, *nom.*; Aut. Bot. 9. 1840, *nom.*=seq.
- **vernus* Raf. l.c., *nom.* Ohio to Tennessee and Missouri=*Geum vernum* (Raf.) Torr. & Gray.
- †**STYLIPUS** Raf. Ann. Gén. Sci. Phys. 7:387. 1820, *descr.*; Kentucky Gaz. 36(15):[3]. 1822, *descr.*; Med. Fl. 1:223. 1828, *descr.*, iter. Man. Med. Bot. 223. 1841; Western Minerva 41. 1821, *descr.*, iter. Fox, Sci. II. 12:212. 1900; Neogen. 3. 1825, *descr.*; Life of Travels 61. 1833, *nom.*=*Geum* Linn.
- vernus* Raf. Ann. Gén. Sci. Phys., Med. Fl., Man. Med. Bot., Kentucky Gaz., Western Minerva, Neogen., et Science, l.c., *descr.*; First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* Kentucky=*Geum vernum* (Raf.) Torr. & Gray.
- ***STYPOSTYLIS** Raf. Ann. Gén. Sci. Phys. 7:387. 1820, *nom. alt.* *Stylipus* Raf.=*Geum* Linn.
- **vernus* Raf. l.c., *nom. alt.* *Stylipus vernus* Raf. Kentucky=*Geum vernum* (Raf.) Torr. & Gray.
- #**THAMNILA** Raf. Aut. Bot. 167. 1840, *descr.*, subgen. *Dasiphora* Raf. (Type *Dasiphora riparia* Raf.=*Potentilla fruticosa* Linn.)=*Dasiphora* Raf. (1840)=*Potentilla* Linn.
- †**THECANISIA** Raf. Act. Soc. Linn. Bordeaux 6:265. 1834, *descr.*, iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.*; New Fl. N. Am. 2:38. 1836 [1837], *descr.*; op. cit. 3:61. 1836 [1837], *nom.*; Sylva Tellur. 152. 1838, *descr.*=*Filipendula* Adans. (1763).
- **amplifolia* Raf. Act. Soc. Linn. Bordeaux 6:266. 1834, *nom.*, iter. Merr. l.c., North America=*Spiraea* sp.
- **angulata* Raf. l.c., *nom.*, iter. Merr. l.c. North America.
- **angustata* Raf. l.c., *nom.*, iter. Merr. l.c. North America.
- angustifolia* Raf. New Fl. N. Am. 2:39. 1836 [1837], *descr.* North Carolina and Georgia=*Filipendula purpurea* (Hill) B. L. Robins.

†**THECANISIA** (*continued*).

- †*discolor* Raf. Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.*, iter. Merr. l.c., New Fl. N. Am. l.c., *descr.*; op. cit. 3:75. 1836 [1838], *nom.*, *nota*. Appalachian Mountains=*Filipendula purpurea* (Hill) B. L. Robinson.
- †*lobata* Raf. Act. Soc. Linn. Bordeaux l.c., *nom.*, iter. Merr. l.c., *nom.*; New Fl. N. Am. 2:38. 1836 [1837], *descr.* Carolina to Alabama=*Filipendula purpurea* (Hill) B. L. Robins.
- palmata* Raf. ex Jacks*. Ind. Kew. 2:1062. 1895 (*Spiraea palmata* Pallas). Siberia.
- purpurea* Raf. New Fl. N. Am. 2:38. 1836 [1837] (*sphalm.* "ponpurea"), *descr.*; op. cit. 4:107. 1836 [1838], *nom.*. Western Kentucky and Tennessee=*Filipendula rubra* (Hill) B. L. Robins.
- ulmaria* Raf. ex Jacks*. Ind. Kew. 2:1062. 1895 (*Spiraea ulmaria* Linn.). Europe, Asia=*Filipendula ulmaria* (Linn.) Maxim.
- ***TOBIUM** Raf. Specch. Sci. 1:155. 1814, *nom.*; Anal. Nat. Tabl. Univ. 173. 1815, *nom.*, *sphalm.* "Tobinum" (*Poterium* sp.)=*Poterium* Linn.
- TORMENTILLA** Linn.=*Potentilla* Linn.
- **fragaroides* Raf. Aut. Bot. 169. 1840, *descr.* (*Fragaria sterilis* Linn.; *Potentilla fragariastrum* Ehrh.; *Comarum fragarioides* Roth). Europe=*Potentilla sterilis* (Linn.) Garcke.
- parviflora* Raf. op. cit. 168, *descr.* Europe.
- #**XAMEDRYON** Raf. Sylva Tellur. 151. 1838, *descr.*, *subgen.* *Spiraea* Linn. (Type, *Spiraea ulmaria* Linn.)=*Filipendula* Adans. (1763).
- †**XEROMALON** Raf. Herb. Raf. 48. 1833, *nom.*; New Fl. N. Am. 3:11. 1836 [1838], *descr.*; Good Book 45. 1840, *nom.* Ex *descr.*=*Crataegus* Linn.
- obovatum* Raf. Herb. Raf. l.c., *nom.*; New Fl. op. cit. 12, *descr.* Appalachian Mountains of Maryland. Prob.=*Crataegus uniflora* Moench.
- ZAMZELA** Raf. Sylva Tellur. 90. 1838, *descr.*=*Hirtella* Linn.
- racemosa* Raf. l.c., *nom.* (*Hirtella triandra* Sw.). West Indies.
- rugosa* Raf. l.c., *nom.* (*Hirtella rugosa* Thuill.). West Indies.

LEGUMINOSAE**ACACIA** Willd.

- virgata* Raf. Fl. Ludovic. 136. 1817, *descr.* sub *Mimosa glandulosa* Willd. (*Mimosa virgata* ("virgata") sensu Bartram, Trav. 421. 1791, non Linn.). Florida=*Neptunia lutea* (Leavenw.) Benth.
- ***ACAKIA** Raf. New Fl. N. Am. 1:41. 1836, *nom.*, *nota* (*Akakia* Adans.; *Acacia* Willd.); Fl. Tellur. 1:87. 1836 [1837], *nom.* (*Acacia* Willd.); Sylva Tellur. 118. 1838, *nom.*; Good Book 44. 1840, *nom.*=*Acacia* Willd. (1805).
- **cooleyi* Raf. New Fl. N. Am. l.c., *descr.* (*Acacia cooleyi* Eaton). South Central United States=*Desmanthus cooleyi* (Eaton) Rydb. (*D. jamesii* Torr. & Gray.).
- **farnesiana* Raf. l.c., *nom.* (*Acacia farnesiana* Willd.). Pantropic.
- **houstonia* Raf. Sylva Tellur. 121. 1838, *nom.*=*Acacia houstoni* Willd.=*Calliandra houstoniana* (Mill.) Standl. Mexico.
- **julibrissin* Raf. New Fl. N. Am. l.c., *descr.* (*Acacia julibrissin* Willd.). India=*Albizia julibrissin* Durazz.
- **lutea* Raf. l.c., *descr.* (*Acacia lutea* Leavenw.). Southeastern United States=*Neptunia lutea* (Leavenw.) Benth.
- ACMISPON** Raf. Atl. Jour. 1:144. 1832, *descr.*; New Fl. N. Am. 1:53. 1836, *descr.*; Good Book 44. 1840, *nom.*=*Hosackia* Dougl. (1829).
- multiflorum* Raf. New Fl. N. Am. l.c., *descr.* Missouri.
- sericeum* Raf. Atl. Jour. 1:145. 1832, *nom.* (*Lotus sericeus* Pursh; *Trigonella americana* Nutt.); New Fl. N. Am. 1:53. 1836, *descr.* Carolina to Missouri=*Hosackia americana* (Nutt.) Piper (*H. sericea* Trelease, non Benth.; *H. purshiana* Benth.; *Acmispon americanus* Rydb.).
- ADIPERA** Raf. Sylva Tellur. 129. 1838, *descr.*=*Cassia* Linn.
- herberti* Raf. l.c., *descr.* (*Cassia herbertiana* Lindl. Bot. Reg. 17: t. 1422. 1831). West Indies=*Cassia laevigata* Willd.
- AGASTIANIS** Raf. New Fl. N. Am. 3:85. 1836 [1838], *descr.*; Good Book 45. 1840, *nom.*=*Sophora* Linn.
- secundiflora* Raf. op. cit. 86, *descr.* (*Broussonetia secundiflora* Ortega; *Virgilia secundiflora* Cav. Ic. 5:1. t. 401. 1799; *Sophora secundiflora* Lagasca). Texas, Mexico=*Sophora secundiflora* (Ortega) Lagasca.
- ***AKAKIA** Adans. Fam. 2:512. 1763, in indice; New Fl. N. Am. 1:41. 1836, *nom.*; Sylva Tellur. 119. 1838, *nom.*, *sub* *Seriandra* Raf.=*Acacia* Willd.

- #**ALATIPES** Raf. New Fl. N. Am. 2:57. 1836 [1837], *descr.*, *subgen. provis.* *Crotalaria* Linn. (Type *Crotalaria alatipes* Raf.); Good Book 45. 1840, *nom.*=*Crotalaria* Linn.
- AMORPHA** Linn.
- **colorata* Raf. Aut. Bot. 81. 1840, *descr.* (*A. caroliniana* Croom?). Appalachian Mountains (= ? *A. nitens* Boynton, 1902).
- **discolor* Raf. op. cit. 79, *descr.* Alabama=*A. fruticosa* Linn.
- **flexuosa* Raf. op. cit. 80, *descr.* Unaka Mountains, North Carolina=*A. fruticosa* Linn.
- **glaucula* Raf. l.c., *descr.* Missouri=*A. fruticosa* Linn.
- lutea* Raf. Fl. Ludovic. 105. 1817, *descr.* (*Amorpha* 1, Rob. Voy. Louis. 3:504. 1807). Louisiana.
- **macrophylla* Raf. Aut. Bot. 79. 1840, *descr.* Florida=? *A. fruticosa* Linn.
- **media* Raf. Herb. Raf. 79. 1833, *nom.* Florida or Alabama.
- †*punctata* Raf. Herb. Raf. 38, 57. 1833, *nom.*; New Fl. N. Am. 3:14. 1836 [1838], *descr.* Missouri=*Amorpha nana* Nutt. fide Raf. Aut. Bot. 81. 1840.
- **retusa* Raf. Aut. Bot. 80. 1840, *descr.* Appalachian Mountains=*A. glabra* Poir.
- tomentosa* Raf. Fl. Ludovic. 105. 1817, *nom.*, *nota.* (*Amorpha* 2, Rob. Voy. Louis. 3:505. 1807). Louisiana.
- †*tomentosa* Raf. Aut. Bot. 81. 1840, *descr.* Indiana and Kentucky=? *A. canescens* Pursh.
- **verrucosa* Raf. op. cit. 80, *descr.* (*Amorpha fruticosa* Linn.?). Alabama=*A. fruticosa* Linn.
- ***AMORPHUS** Raf. Fl. Tellur. 1:29. 1836 [1837], *nom.*=*praec.*
- AMPHICARPA** Ell. (1818), *nom. conserv.* (*Falcata* J. F. Gmel., 1791; *Savia* Raf., 1808).
- ciliata* Raf. New Fl. N. Am. 1:82. 1836, *descr.* Appalachian Mountains of Virginia and Carolina=*A. bracteata* (Linn.) Fernald.
- cuspidata* Raf. op. cit. 83, *descr.* Cumberland Mountains of eastern Kentucky=*A. bracteata* (Linn.) Fernald.
- deltifolia* Raf. l.c., *descr.* Canada to New Jersey and Missouri=*A. bracteata* (Linn.) Fernald.
- var. *incarnata* Raf. l.c., *nom.*
- procera Raf. l.c., *descr.*
- elliotti* Raf. l.c., *descr.* (*Amphicarpa monoica* Ell., *Glycine monoica* Linn.). Virginia and Carolina=*A. bracteata* (Linn.) Fernald, *Rhodora* 35:276. 1933 (*Glycine bracteata* Linn.; *Falcata comosa* auctt. Am., non O. Kuntze, non *Glycine comosa* Linn.; *Glycine monoica* Linn.; *Amphicarpa monoica* Ell.).
- heterophylla* Raf. op. cit. 82, *descr.* Alleghany Mountains of Pennsylvania=*A. bracteata* (Linn.) Fernald.
- villosa* Raf. l.c., *descr.* Alabama, Mississippi=*A. bracteata* (Linn.) Fernald.
- ANDACA** Raf. Fl. Tellur. 3:82. 1836 [1837], *descr.*=*Lotus* Linn.
- arabica* Raf. Fl. Tellur. l.c., *descr.* (*Lotus arabicus* Linn.; Soland. ex Russell, Nat. Hist. Alep. ed. 2, 2:261. t. 14. 1794; Jacq. Hort. Vind. 2: t. 155. 1770-76). Arabia, Syria.
- ANDRASTIS** Raf. ex Benth. Ann. Wien. Mus. 2:86. 1840 [1838], *nom.*, *nota* (*Virgilia lutea* Michx. f.)=*Cladrastis* Raf.
- ANISANTHERA** Raf. Fl. Tellur. 2:60. 1836 [1837], *descr.* (non *Anisanthera* Raf. op. cit. 3:80. 1836 [1837])=*Crotalaria* Linn.
- hastata* Raf. op. cit. 61, *descr.* (*Crotalaria verrucosa* Linn., var.) Mauritius, Bourbon=*Crotalaria verrucosa* Linn.
- versicolor* Raf. op. cit. 60, *descr.* (*Crotalaria verrucosa* sensu Willd.; Andr. Bot. Repos. 5: t. 308. 1803; Lindl. Bot. Reg. 14: t. 1137. 1828; Hook. Bot. Mag. 57: t. 3034. 1830; *Crotalaria caerulea* Jacq. Ic. Rar. 1: t. 144. 1781-86). Pantropic=*Crotalaria verrucosa* Linn.
- ***ALENDA** Raf. New Fl. N. Am. 3:86. 1836 [1838], *nom.* sub *Agastianis secundiflora* Raf.=*Sophora* Linn.
- ASACARA** Raf. Neogen. 2. 1825, *descr.*; Sylva Tellur. 121. 1838, *descr.*; Aut. Bot. 82. 1840, *nom.* sub *Monosemeion* Raf.=*Gleditsia* Linn.
- aquatica* Raf. l.c., *nom.* (*Gleditsia monosperma* Walt. [*Gleditsia aquatica* Marsh.] Southeastern United States=G. *aquatica* Marsh.
- ASTRAGALUS** Linn.
- **mandanensis* Raf. l.c., *nom.* Upper Missouri (Mandan country)=Dakota.
- **nuttali* Raf. Herb. Raf. 39. 1833, *nom.* Upper Missouri (Mandan country)=Dakota.

- **plattensis* Raf. l.c., *nom.* Upper Missouri (Mandan country)=Dakota.
- **siculus* Raf. Car. Nuov. Gen. Sp. Sicil. 72. 1810, *descr.*; Stat. Gen. Sicil. 27. 1810, *nom.*; *Chloris Aetn.* 9, 14. 1815, *nom.* Sicily.
- AULONIX** Raf. Sylva Tellur. 25. 1838, *descr.*=*Cytisus* Linn., sect. *Tubocytisus* DC.
- biflorus* Raf. l.c., *descr.* (*Cytisus biflorus* L'Hérit.; Ker-Gawl. Bot. Reg. 4: t. 308. 1818). Hungary.
- AVORNELA** Raf. Sylva Tellur. 24. 1838, *descr.* (*Chamaespartium* Adans.; *Genistella* Rupp.)=*Cytisus* Linn.
- canariensis* Raf. ex Jacks*. Ind. Kew. 1:255. 1893 (*Genista canariensis* Linn.). Canary Islands=*Cytisus canariensis* (Linn.) Steud.
- candicans* Raf. ex Jacks*. l.c. (*Genista candicans* Linn.) Southern Europe=*Cytisus candicans* (Linn.) Lam.
- linifolia* Raf. ex Jacks*. l.c. (*Genista linifolia* Linn.). Southern Europe=*Cytisus linifolius* (Linn.) Lam.
- ***AVORNELLA** Raf. ex Torre & Harms, Gen. Siphon. 226. 1901, *nom.*=*praec.*
- ***AXIRON** Raf. Sylva Tellur. 25. 1838, *nom.* sub *Diexulon* Raf.=*Cytisus* Linn.
- BAPTISIA** Vent.; Raf. New Fl. N. Am. 2:46. 1836 [1837], *descr.*
- albiflora* Raf. op. cit. 47, *descr.* (*Baptisia alba* R. Br.). Carolina to Alabama and Louisiana.
- var. *glauca* Raf. l.c., *nom.*
- latifolia* Raf. l.c., *nom.*
- mucronata* Raf. l.c., *nom.*
- retusa* Raf. l.c., *nom.*
- **cerulea* Raf. Western Rev. Miscel. Mag. 2:92. 1819, *nom.* (*Podalyria coerulea* Michx.; *Baptisia* †*coerulea* Eaton, Man. ed. 4, 228. 1824). Kentucky.
- retusa* Raf. New Fl. N. Am. 2:47. 1836 [1837], *descr.* Western Virginia and eastern Kentucky.
- tinctoria* R. Br. Canada to Louisiana.
- var. *parvifolia* Raf. l.c., *nom.*
- procumbens* Raf. l.c., *nom.*
- thamnodes* Raf. l.c., *nom.*
- versicolor* Raf. New Fl. N. Am. 4:107. 1836 [1838], *nom.*; Jacks. Ind. Kew. 1:272. 1893 est *B. versicolor* Lodd. Bot. Cab. 12: t. 1144. 1826. Eastern North America.
- BAUHINIA** Linn.
- **angulata* Raf. Sylva Tellur. 122. 1838, *nom.* sub *Cansenia* Raf. Hab.?
- **monandra* Raf. l.c., *nom.* sub *Monoteles* Raf. Hab.?
- **utimuta* Raf. l.c., *nom.* sub *Mandarus* Raf.=*B. outimouta* Aubl. Guiana.
- BESSIA** Raf. Sylva Tellur. 13. 1838, *descr.*=*Intsia* Thouars (1806).
- sanguinolenta* Raf. l.c., *descr.* (*Bessi* [i.e. *Metrosideros ambouensis*] Rumph. Herb. Amb. 3:21. t. 10. 1743). Moluccas=*Intsia bijuga* (Colebr.) O. Kuntze; see Merrill, Interpret. Rumph. Herb. Amb. 255. 1917.
- BINARIA** Raf. Sylva Tellur. 122. 1838, *descr.*=*Schnella* Raddi (1820)=*Lacara* Spreng. (1822)=*Caulotretus* L. C. Rich., 1827=*Bauhinia* Linn.
- cumanensis* Raf. l.c., *descr.* (*Bauhinia cumanensis* H.B.K.; Lindl. Bot. Reg. 14: t. 1133. 1828). Venezuela.
- BRADBURYA** Raf. Fl. Ludovic. 104. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.*=*Centrosema* Benth. (1838), *nom. conserv.* (*Bradburya* Raf., 1817; *Vexillaria* Hoffmgg., 1824).
- erecta* Raf. op. cit. 105, *descr.* (*Glycine* 2 Rob. Voy. Louis. 3:504. 1807); Herb. Raf. 55. 1833, *nom.* Louisiana.
- **reticulata* Raf. Herb. 67. 1833, *nom.* Cumberland Mountains=*Centrosema virginianum* (Linn.) Benth.
- scandens* Raf. Fl. Ludovic. 10, *nom.*, 104, *descr.*, 1817 (*Glycine* 1 Rob. op. cit. 503); Herb. Raf. 56. 1833, *nom.* Louisiana=*Centrosema virginianum* (Linn.) Benth.
- CAJANUM** Raf. Sylva Tellur. 25. 1838, *descr.* (*Cajan* Adans.)=*Cajanus* DC. (1813), *nom. conserv.* (*Cajan* Adans., 1763).
- thora* Raf. l.c., *nom.* (*Cytisus pseudocajan* Jacq.). Pantropic=*Cajanus cajan* (Linn.) Millsp. (*Cajanus indicus* Spreng.).
- CANSENIA** Raf. Sylva Tellur. 122. 1838, *descr.*=*Bauhinia* Linn.
- **angulata* Raf. l.c., *nom.* (*Bauhinia angulata* Raf. l.c.). Hab.?
- angulosa* Raf. ex Jacks*. Ind. Kew. 1:413. 1893 *sphalm.*=*Bauhinia angulata* Raf. Hab.?
- tomentosa* Raf. Sylva Tellur. l.c., *nom.* (*Bauhinia tomentosa* Linn.). Tropical Asia.
- CASSIA** Linn.
- ciliata* Raf. Fl. Ludovic. 100. 1817, *descr.* (*Anonyme* Rob. Voy. Louis. 3:499. 1807). Louisiana=*C. occidentalis* Linn. (*Ditremexa occidentalis* Britton & Rose).
- **thora* Raf. Sylva Tellur. 128. 1838, *nom.*, *sphalm.*=*Cassia* tora Linn. Tropical America.
- **toroides* Raf. Med. Fl. 1:96. 1828, *descr.*, iter. Man. Med. Bot. 96. 1841; Sylva Tellur. 128. 1838, *nom.* sub *Diallobus falcatus* Raf. Georgia to Kentucky=*C. tora* Linn.
- **torula* Raf. Sylva Tellur. 129. 1838, *nom.* sub *Tagera* Raf.=*Cassia tora* Linn.
- CASSIANA** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom. nov.* *Cassia* Linn.
- ***CLADASTRIS** Wood, Class-Book 301. 1861, *sphalm.*=seq.
- **tinctoria* Wood l.c., *sphalm.*=*Cladrastis tinctoria* Raf.
- †**CLADRASTIS** Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Cincinnati Lit. Gaz. 1:60. 1824, *descr.*; Neogen. 1. 1825, *descr.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 70. 1833, iter. Britten, Jour. Bot. 38:226. 1900; Act. Soc. Linn. Bordeaux 6:264. 1834, *nom.* (*Virgilia* auct. Am.); New Fl. N. Am. 1:26. 1836, *nom.*; op. cit. 2:53. 1836 [1837], *nom.*; op. cit. 3:83. 1836 [1838], *descr.*; Good Book 45. 1840, *nom.* (*Platysprion* Maxim., 1876).
- albiflora* Raf. New Fl. N. Am. 3:83. 1836 [1838], *nom.* alt. *Cladrastis tinctoria* Raf.; Aut. Bot. 78. 1840, *nom.* (*C. tinctoria* Raf.). Kentucky=*C. lutea* (Michx. f.) K. Koch, Dendr. 1:6. 1869.
- †*fragrans* Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Cincinnati Lit. Gaz. 1:60. 1824, *descr.* Kentucky=*praec.*
- kentuckensis* Raf. ex Jacks*. Ind. Kew. 1:552. 1893 [*Sophora kentuckea* Dum. Cours. Bot. Cult. ed. 2, 6:56. 1811]=*praec.*
- lutea* Raf. ex Jacks*. l.c. (*Virgilia lutea* Michx. f.)=*C. lutea* (Michx.) K. Koch, Dendr. 1:6. 1869.
- secundiflora* Raf. ex Jacks*. l.c. (*Virgilia secundiflora* Cav.). Mexico=*Sophora secundiflora* (Ortega) Lag.
- tinctoria* Raf. Neogen. 1. 1825, *nom.* (*Virgilia lutea* Michx. f.); Herb. Raf. 48. 1833, *nom.* (*Virgilia lutea* Michx. f.); Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.*, *nota*; New Fl. N. Am. 3:83. 1836 [1838], *descr.*; Aut. Bot. 78. 1840, *nom.*, *nota*. Kentucky to Alabama=*C. lutea* (Michx. f.) K. Koch.
- CLITORIA** Linn.
- parviflora* Raf. Atl. Jour. 1:147. 1832, *descr.* Florida=*C. ternatea* Linn.
- CORONILLA** Linn.
- **rosea* Raf. Aut. Bot. 79. 1840, *descr.* Persia.
- CRAFORDIA** Raf. Specch. Sci. 1:156. 1814, *descr.*=*Tephrosia* Pers. (1807).
- bracteata* Raf. op. cit. 157, *descr.* Pennsylvania=? *T. spicata* (Walt.) Torr. & Gray.
- CROTALARIA** Linn.
- alatypes* Raf. New Fl. N. Am. 2:57. 1836 [1837], *descr.* Southern Florida=? *C. spectabilis* Roth.
- asarifolia* Raf. l.c., *descr.* Texas=? *C. angulata* Mill.
- cuneifolia* Raf. op. cit. 55, *descr.* Carolina to Florida=*C. purshii* DC.
- **flexuosa* Eaton,¹⁷ Man. Bot. N. Am. ed. 7, 264. 1836, *descr.*; Raf. op. cit. 56, *descr.* Carolina=*Crataegus flexuosa* (Poir.) DC.=*Crataegus uniflora* Moench (Rosaceae).
- linearis* Raf. op. cit. 54, *descr.* (*Crotalaria sagittalis* Linn., var. *linearis* Michx.). Carolina to Louisiana=*C. purshii* DC.
- longipes* Raf. l.c., *descr.* (*Crotalaria sagittalis* sensu DC.?). Alabama=? *C. purshii* DC.
- lunulata* Raf. op. cit. 55, *descr.* (*Crotalaria sagittalis* Linn., var. *oblonga* Michx.). Carolina to Florida=*C. sagittalis* Linn.
- lupulina* "Raf. Specch. 1:159"; S. Wats. Bibl. Ind. N. Am. Bot. 1:210. 1878, recte *C. lupulina* H.B.K. Nov. Gen. Sp. Pl. 6:402. t. 590. 1824; DC. Prodr. 2:133. 1825. Mexico=*C. pumila* Ortega.
- ovalis* Pursh. Carolina, Alabama, Florida=*C. angulata* Mill. var. *obovata* Raf. op. cit. 56, *descr.*
- parvifolia* Raf. l.c., *nom.*

¹⁷ For an explanation of this strange error see Merrill, E. D. & Reeder, J. R., *Bartonia* 24:56. 1947 [1948].

CROTALARIA (*continued*).

- pilosa* Raf. op. cit. 54, *descr.* (*Crotalaria parviflora* Roth, non Thunb.). Pennsylvania and New Jersey to Carolina and Missouri=*C. sagittalis* Linn.
var. *flexuosa* Raf. op. cit. 55, *descr.* Missouri.
simplex Raf. l.c., *descr.*
pumila Raf. op. cit. 56, *descr.* Georgia, Florida=*C. angulata* Mill.
scariosa Raf. l.c., *descr.* Arkansas, Texas=*C. sagittalis* Linn.
var. *fruticosa* (Mill.) Fawc. & Rendle.
CUPARILLA Raf. Sylva Tellur. 120. 1838, *descr.*=*Acacia* Willd. (1805).
myrtifolia Raf. l.c., *nom.* (*Acacia myrtifolia* Willd.). Australia.
sophorina Raf. l.c., *nom.* (*Acacia sophorae* R. Br.). Australia.
CYLIPOGON Raf. Jour. Phys. Chim. Hist. Nat. 89:97. 1819, *descr.*; Isis von Oken 1820. 1: Lit. Anz. 237. 1820, *descr.*=*Dalea* Juss. (1789), *nom. conserv.*, non *Dalea* Mill. et al. (*Parosela* Cav., 1802).
capitatum Raf. l.c., *descr.*; Herb. Raf. 38. 1833, *nom.* (*Dalea aurea* Nutt.). Upper Missouri=*Dalea aurea* Nutt. (*Parosela aurea* Britton).
virgatum Raf. l.c., *descr.*; Herb. Raf. 38. 1833, *nom.* (*Dalea laxiflora* Pursh). Upper Missouri (Dakota)=*Dalea enneandra* Nutt. (*Parosela enneandra* Britton).
DACTIPHYLLON Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov.* *Lupinaster* Moench=seq.
DACTIPHYLLUM Raf. Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom. nov.* *Lupinaster* Moench.; Loud. Gard. Mag. 8:246. 1832, *nom.* (*Lupinaster* Moench.), iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38: 227. 1900=Trifolium Linn.
DAMAPANA Adans. (1763)=*Smithia* Ait. (1789), *nom. conserv.* (*Damapana* Adans., 1763).
manneli Raf. Sylva Tellur. 70. 1838, *descr.* (*Tsjovannamanneli* Rheede, Hort. Malabar. 9:71. t. 38. 1689). India=*Smithia sensitiva* Ait.
DARLINGTONIA DC. (1825)=*Desmanthus* Willd. (1805), *nom. conserv.* (*Acuan* Medic., 1786).
brevifolia Raf. New Fl. N. Am. 1:42. 1836, *descr.* Louisiana, Texas=*Desmanthus brachylobus* Benth.=*Desmanthus illinoensis* (Mich.) MacMill.
virgata Raf. op. cit. 43, *descr.* (*Acacia glandulosa* sensu Raf. Fl. Ludovic. 136. 1817, non Willd.; *Mimosa virgata* (*virgata*) Bartr. Trav. 421. 1791, non Linn.). Southeastern Louisiana=*Neptunia lutea* (Leavenw.) Benth.
DARWINIA Raf. Fl. Ludovic. 106. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.*; Fl. Tellur. 1:16. 1836 [1837], *nom.*, non Rudge (1813)=*Sesbania* Scop. (1777), *nom. conserv.* (*Sesban* Adans., 1763; *Agati* Adans., 1763).
exaltata Raf. l.c., *descr.* (*Indigotier de la Louisiane* Rob. Voy. Louis. 3:505. 1807). Louisiana=*Sesbania macrocarpa* Muhl.
DASIOGYNA Raf. Atl. Jour. 1:145. 1832, *descr.*=*Neltuma* Raf. (1838)=*Prosopis* Linn.
glandulosa Raf. l.c., *nom.* (*Prosopis* [*glandulosa*] Torr. Ann. Lyc. Nat. Hist. N. Y. 2:192. 1827). Canadian River (*Neltuma glandulosa* Britton & Rose).
DELONIX Raf. Fl. Tellur. 2:92. 1836 [1837], *descr.*
regia Raf. l.c., *descr.* (*Poinciana regia* Boj.; Hook. Bot. Mag. 56: t. 2884. 1829). Madagascar.
DENDREMA Raf. Sylva Tellur. 14. 1838, *nom. nov. provis.* *Bessia* Raf.=*Intsia* Thouars (1806).
DESMODIUM Desf. (1813), *nom. conserv.* (*Meibomia* Adans., 1763; *Pleurolobus* J. St. Hil., 1812).
leucanthum Raf. New Fl. N. Am. 2:19. 1836 [1837], *nom.* sub *Tropitoma* Raf. Kentucky=D. marilandicum (Linn.) DC.
DIALANTHERA Raf. Sylva Tellur. 127. 1838, *descr.*=*Chamaecrista* Moench (1794)=*Cassia* Linn.
glandulosa Raf. l.c., *nom.* (*Cassia glandulosa* Linn.). Tropical America. (*Chamaecrista glandulosa* Greene).
DIALLOBUS Raf. Sylva Tellur. 128. 1838, *descr.*=*Cassia* Linn.
bicapsularis Raf. ex Jacks*. Ind. Kew. 1:741. 1893=*Cassia bicapsularis* Linn. Tropical America.
falcatus Raf. Sylva Tellur. 128. 1838, *descr.* (*Cassia toroides* Raf.; *C. thora* Raf.). Carolina, Kentucky=*Cassia tora* Linn. (*Emelista tora* Britton & Rose, 1930).

- subuniflorus* Raf. ex Jacks*. Ind. Kew. 1:741. 1893, *nom.*, *sphalm.*=*D. uniflorus* Raf.
**sunsub* Raf. Sylva Tellur. l.c., *nom.* (*Cassia sunsub* Forsk.). Arabia.
thora Raf. ex Jacks*. Ind. Kew. 1:741. 1893 (*Cassia thora* Raf.). Pantropic=*C. tora* Linn.
uniflorus Raf. Sylva Tellur. 128. 1838, *descr.* (*Cassia bicapsularis* sensu Mill.). West Indies, Madeira=*Cassia tora* Linn. (*Emelista tora* Britton & Rose, 1930).
DIALLOSPERMA Raf. Sylva Tellur. 69. 1838, *descr.*=*Aspalathus* Linn.
spinosa Raf. l.c., *nom.* (*Aspalathus spinosa* Linn.). South Africa.
DIAXULON Raf. Sylva Tellur. 24. 1838, *descr.*=*Cytisus* Linn., sect. *Tubocytisus* DC.
argenteum Raf. op. cit. 25, *nom.* (*Cytisus argenteus* Linn.). Mediterranean region=*Argyrobium linnaeanum* Walp.
prolifer Raf. l.c., *nom.* (*Cytisus proliferus* Linn. f.). Teneriffe.
DIMENOPS Raf. Atl. Jour. 1:144. 1832, *descr.*=*Krameria* Loeff. (1758).
lanceolata Raf. l.c., *nom.* (*Krameria lanceolata* Torr.). Arkansas and Canadian Rivers.
***DIPLOPIX** Raf. Fl. Ludovic. 101. 1817, *nom.* sub *Diplonyx* Raf.; New Fl. N. Am. 3:95. 1836 [1838], *nom.*=seq.
**elegans* Raf. l.c., *descr.*, sub *Diplonyx* Raf.=seq.
†**DIPLONYX** Raf. Fl. Ludovic. 10, *nom.*, 101, *descr.* 1817=*Wisteria* Nutt. (1818), *nom. conserv.* (*Krauhnia* Raf., 1808; *Diplonyx* Raf., 1817; *Thyrsanthus* Ell., 1817).
elegans Raf. op. cit. 10, *nom.* op. cit. 101, *descr.* ut *Diplonix* (*Cytise vulg. liane blanche* Rob. Voy. Louis. 3:500. 1807); Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.*; Herb. Raf. 56. 1833, *nom.* Louisiana=*Wisteria frutescens* (Linn.) Poir.
DIPLOTAX Raf. Sylva Tellur. 129. 1838, *descr.*=*Cassia* Linn.
arborescens Raf. l.c., *nom.* (*Cassia arborescens* Vahl). India=*Cassia glauca* Lam.=*C. surattensis* Burm. f.
DISTEREPTA Raf. Sylva Tellur. 126. 1838, *descr.*=*Chamaecrista* Moench (1794)=*Cassia* Linn.
pilosa Raf. l.c., *nom.* (*Cassia pilosa* Linn.). Tropical America. (*Chamaecrista pilosa* Greene).
DITREMEXA Raf. Sylva Tellur. 127. 1838, *descr.*=*Cassia* Linn.
caroliniana Raf. l.c., *nom.* (*Cassia occidentalis* Linn.). North America.
fetida Raf. l.c., *nom.* (*Cassia occidentalis* Linn.). North America.
ligustrina Raf. ex Jacks*. Ind. Kew. 1:783. 1893; Britton & Rose, Sci. Surv. Porto Rico, Virgin Islds. 5:372. 1924=*Cassia ligustrina* Linn. Tropical America.
DOLICHOS Linn.
lacteus Raf. Fl. Ludovic. 10, *nom.*, 103, *descr.*, 1817 (*Josephine* Rob. Voy. Louis. 3:267, 502, 1807); Med. Fl. 2:217. 1830, *nom.* Louisiana.
tomentosus Raf. l.c., *descr.* (*Dolic tomenteux* Rob. op. cit. 502). Louisiana.
DREPAPHYLA Raf. Sylva Tellur. 120. 1838, *descr.*=*Acacia* Willd. (1805).
lanigera Raf. l.c., *nom.* (*Acacia lanigera* Cunningh.; Hook. Bot. Mag. 56: t. 2922. 1829). Australia.
multinervia Raf. l.c., *nom.* (*Acacia multinervia* DC.). Australia.
DREPILIA Raf. New Fl. N. Am. 2:52. 1836 [1837], *descr.*=*Thermopsis* R. Br. (1811).
rhombifolia Raf. op. cit. 53, *descr.* (*Cytisus rhombifolius* Pursh; *Thermia rhombifolia* Nutt.; *Thermopsis rhombifolia* Richards.; Hook. Fl. Am. Bor. 1:128, t. 47. 1830; *T. oregonensis* DC.). "Missouri and Oregon"=*Thermopsis rhombifolia* (Pursh) Richards.
EAPLOSIA Raf. New Fl. N. Am. 2:51. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*=*Baptisia* Vent. (1808).
longifolia Raf. op. cit. 52, *descr.* Alabama.
ovata Raf. l.c., *descr.* (*Baptisia simplicifolia* sensu Torr.). Florida=*Baptisia simplicifolia* Croom.
var. *rhomboidea* Raf. l.c., *nom.*
EBURNAX Raf. New Fl. N. Am. 1:42. 1836, *descr.* sub *Mimosa pudica* Linn.=*Mimosa* Linn.
pudica Raf. ex Jacks*. Ind. Kew. 1:808. 1893 (*Mimosa pudica* Linn.). Florida, Louisiana.
spinalba Raf. Sylva Tellur. 119. 1838, *nom.* sub *Panthocarpa chionacantha* Raf. (*Mimosa eburnea* Linn. f.). Asia Minor to India=*Acacia eburnea* (Linn. f.). Willd.

- ELAYUNA** Raf. Sylva Tellur. 145. 1838, *descr.* = *Bauhinia* Linn.
biloba Raf. l.c., *descr.* (*Bauhinia tamarindacea* Delile). Central Africa.
- #**ELEUCIA** Raf. Fl. N. Am. 2:47. 1836 [1837], *nom. nov. provis.*, subgen. *Baptisia* Vent., sub *B. albiflora* Raf. = *Baptisia* Vent. (1808).
- EMELISTA** Raf. Sylva Tellur. 127. 1838, *descr.* = *Cassia* Linn.
obtusifolia Raf. l.c., *nom.* (*Cassia obtusifolia* Linn.). Tropical America = *Cassia tora* Linn.
- ENTADA** Adans. (1763), *nom. conserv.* (*Gigalobium* Boem., 1760).
cirrhusa Raf. Sylva Tellur. 119. 1838, *nom.* (*Mimosa entada* Linn.). India, Ceylon = *Entada phaseoloides* (Linn.). Merr. (*E. scandens* Benth.).
- ERVUM** Linn.
aristatum Raf. Précis Découv. Somiol. 38. 1814, *descr.*; Jour. Bot. (Desv.) 4:270. 1814, *descr.*; *Chloris Aetn.* 5. 1815, *nom.* Sicily.
- ESCLERONA** Raf. Sylva Tellur. 120. 1838, *descr.* = *Xylia* Benth. (1842).
montana Raf. l.c., *descr.* (*Mimosa xylocarpa* Roxb.; *Acacia xylocarpa* Willd.). India = *Xylia xylocarpa* (Roxb.) Taub. (*X. dolabriformis* Benth.).
- EUTELINE** Raf. Sylva Tellur. 24. 1838, *descr.* = *Genista* Linn., sect. *Corothamnus* (Koch) Nyman.
decumbens Raf. ex Jacks*. Ind. Kew. 1:936. 1893 (*Genista decumbens* Willd.). Europe = *Cytisus decumbens* (Willd.) Spach.
germanica Raf. ex Jacks*. l.c. (*Genista germanica* Linn.). Europe.
sagittalis Raf. ex Jacks*. l.c. (*Genista sagittalis* Linn.). Europe.
- FAKELOBA** Raf. Sylva Tellur. 69. 1838, *descr.* = *Anthyllis* Linn.
cretica Raf. l.c., *descr.* (*Aspalathus cretica* Linn.). Mediterranean region = *Anthyllis hermanniae* Linn.
- FLUNDULA** Raf. Fl. Tellur. 2:96. 1836 [1837], *nom. alt.*
Rafinesquia Raf. (Leguminosae); op. cit. 3:6. 1836 [1837], *nom.* = *Hosackia* Dougl. (1829).
comosa Raf. l.c., *nom. alt.* *Rafinesquia comosa* Raf. (*Lotus pinnatus* Hook. Bot. Mag. 56: t. 2913. 1829 [*Hosackia bicolor* Dougl. ex Benth. in Lindl. Bot. Reg. 15: t. 1257. 1829]). Northwestern United States = *Hosackia bicolor* Dougl. ex Benth.
- FOLIANTHERA** Raf. Sylva Tellur. 120. 1838, *descr.* = *Stryphnodendron* Mart. (1837).
guianensis Raf. l.c., *nom.* (*Mimosa guianensis* Aubl.; *Acacia guianensis* Willd.). Guiana = *Stryphnodendron guianense* (Aubl.) Benth.
- GEOLOBUS** Raf. New Fl. N. Am. 1:81. 1836, *descr.* = *Voandzeia* Thouars (1806).
flavus Raf. op. cit. 85, *descr.* (*Glycine subterranea* Linn.). Africa = *Voandzeia subterranea* (Linn.) Thouars.
- GLEDITSCHIA** Scop. (1777) = *Gleditsia* Linn.
heterophylla Raf. Fl. Ludovic. 99, *descr.* 10, *nom.*, 1817 (*Fevier* Rob. Voy. Louis. 3:497. 1807); Sylva Tellur. 121. 1838, *nom.* (*Gleditsia*), sub *Melilobus heterophylla* Raf.; New Fl. N. Am. 3:95. 1836 [1837], *nom.*; Herb. Raf. 55. 1833, *nom.* Louisiana = *Gleditsia triacanthos* Linn.
- GLYCINE** Linn.
montana Raf. Atl. Jour. 1:154. 1832, *descr.*; New Fl. N. Am. 1:84. 1836, *nom.* in syn. sub *Lobomon montanum* Raf. Alleghany Mountains = *Amphicarpa bracteata* (Linn.) Fernald.
pedunculosa Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. (Paris) 1:227. 1809, *descr.* New Jersey, Maryland, Virginia = *Amphicarpa bracteata* (Linn.) Fernald.
- ***GONANCYLIS** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Fl. Tellur. 1:85. 1836 [1837], *nom. nov.* *Apios* sensu Pursh = *Apios* Medic. (1787), *nom. conserv.* (*Bradlea* Adans., 1763).
thyrsoidea Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
- ***GONONDRA** Raf. New Fl. N. Am. 3:86. 1836 [1838], *nom.* sub *Agastianis secundiflora* Raf. = *Sophora* Linn.
- GUMIFERA** Raf. Sylva Tellur. 118. 1838, *descr.* = *Acacia* Willd. (1805).
arabica Raf. ex Jacks*. Ind. Kew. 1:1072. 1893 (*Acacia arabica* Willd.). Africa, Asia.
nilotica Raf. ex Jacks*. l.c. (*Acacia nilotica* Delile). Egypt = *Acacia arabica* Willd.
- vera* Raf. ex Jacks*. l.c. (*Acacia vera* Willd.). Africa, Asia = *Acacia arabica* Willd.
- HECATANDRA** Raf. Sylva Tellur. 120. 1838, *descr.* = *Acacia* Willd. (1805).
oxycedrus Raf. l.c., *nom.* (*Acacia oxycedrus* Sieb.). Australia.
suaveolens Raf. l.c., *nom.* (*Acacia suaveolens* Willd.). Australia.
- HEDYSARUM** Scop.
**leucanthemum* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
**leucanthum* Raf. ex M'Murtrie, Sketch. Louisv. 219. 1819, *nom.* Kentucky.
**scabrum* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States. An *H. scabrum* Moench (1794) = ? *Desmodium canadense* (Linn.) DC.
- †**HEMIDESMA** Raf. Sylva Tellur. 179. 1838, *nom.*, in indice = seq.
- HEMIDESMAS** Raf. Sylva Tellur. 119. 1838, *descr.*, non R. Br. (1809) = *Neptunia* Lour. (1790).
diffusa Raf. ex Jacks*. Ind. Kew. 1:1126. 1893 (*Desmanthus diffusus* Willd.). Tropical America.
plena Raf. ex Jacks*. l.c. (*Desmanthus plenus* Willd.). Tropical America = *Neptunia plena* (Willd.) Benth.
- HEPTEIRECA** Raf. Sylva Tellur. 126. 1838, *descr.* = *Chamaecrista* Moench (1794) = *Cassia* Linn.
glandulosa Raf. op. cit. 127, *descr.* (*Cassia glandulosa* sensu Hook. Bot. Mag. 62: t. 3435. 1835, non Linn.). South America = ? *Cassia virgata* Sw.
- HERPETICA** Raf. Sylva Tellur. 123. 1838, *descr.* = *Cassia* Linn.
alata Raf. l.c., *nom.* (*Cassia alata* Linn.). Tropical America.
- HIPPOCREPIS** Linn.
**unisiliqua* Raf. [*H. unisiliqua* Linn.] var. *biflora* Raf. *Chloris Aetn.* 5. 1815, *nom.* Sicily.
- HIPPOCRIS** Raf. Princ. Somiol. 27. 1814, *nom. nov.* *Hippocrepis* Linn.; Fl. Tellur. 1:84. 1836 [1837], *nom.* (*Hippocrepis* Linn.) = *praeac.*
- INDIGOFEA** Linn.
**amena* Raf. First Cat. Bot. Gard. Transylv. Univ. 18. 1824, *nom.* = *I. amoena* Ait. South Africa.
- INGARIA** Raf. Sylva Tellur. 119. 1838, sub *Spiroloba* Raf., *nom. nov.* *Inga* Scop. (1777).
- IOCAULON** Raf. New Fl. N. Am. 2:53. 1836 [1837], *descr.* subgen. *Crotalaria* Linn.; Good Book 45. 1840, *nom.* = *Crotalaria* Linn.
cuneifolium Raf. op. cit. 55, *nom. alt.* *Crotalaria cuneifolia* Raf. North America.
lineare Raf. op. cit. 54, *nom. alt.* *Crotalaria linearis* Raf. North America.
longipes Raf. l.c., *nom. alt.* *Crotalaria longipes* Raf. North America.
lunulatum Raf. op. cit. 55, *nom. alt.* *Crotalaria lunulata* Raf. North America.
ovale Raf. l.c., *nom. alt.* *Crotalaria ovalis* Pursh. North America.
var. *obovatum* Raf. op. cit. 56, *nom.*
var. *parvifolium* Raf. l.c., *nom.*
pilosum Raf. op. cit. 54, *nom. alt.* *Crotalaria pilosa* Raf. North America.
var. *flexuosum* Raf. op. cit. 55, *descr.*
var. *simplex* Raf. l.c., *descr.*
pumilum Raf. op. cit. 56, *nom. alt.* *Crotalaria pumila* Raf. North America.
sagittale Raf. l.c., *nom. alt.* *Crotalaria sagittalis* Linn. North America.
- ISANDRINA** Raf. Sylva Tellur. 126. 1838, *descr.* = *Cassia* Linn.
arborescens Raf. l.c., *descr.* (*Cassia emarginata* Linn.). Tropical America.
- IXINA** Raf. Atl. Jour. 1:144. 1832, *nom. subnud.* = *Krameria* Loeff. (1758).
- JAMESIA** Raf. Atl. Jour. 1:145. 1832, *descr.* = *Dalea* Juss. (1789), non Mill. (1754), *nom. conserv.* (*Parosela* Cav., 1802).
obovata Raf. l.c., *nom.* (*Psoralea jamesii* Torr.). Rocky Mountains = *Dalea jamesii* (Torr.) Torr. & Gray.
- ***JULIBRISIN** Raf. New Fl. N. Am. 1:41. 1836, *nom.* sub *Acacia* (*Acacia julibrissin* [s]in Willd. = *Albizia* [Albizia] Durazz. (1772)).
- ***ARBOREA** Raf. l.c., *nom.* (*Acacia julibrissin* Willd.). India = *Albizia julibrissin* Durazz.

- KONXIKAS** Raf. Aut. Bot. 78. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*=? *Lathyrus* Linn.
acuminatum Raf. l.c., *descr.*; Pennell, l.c., *nom.* Siberia ?
- KRAUNHIA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.*; A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.*=*Wisteria* Nutt. (1818), *nom. conserv.* (*Kraunhia* Raf., 1808; *Diplonyx* Raf., 1817; *Thyranthus* Ell. 1817).
frutescens Raf. l.c., *nom.* (*Glycine frutescens* Linn.). South-eastern United States=*Wisteria frutescens* (Linn.) Poir.
- ***KRAUNSHIA** Raf. Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.*, *nota.*=*praec.*
- LABURNUM** Linn.
pendulum Raf. Sylva Tellur. 24. 1838, *nom.* (*Cytisus laburnum* Linn.). Europe=*Laburnum anagyroides* Medic.
- LASINIA** Raf. New Fl. N. Am. 2:46, *nom.* 48, *descr.* 1836 [1837]; Good Book 45. 1840, *nom.*=*Baptisia* Vent. (1808).
bicolor Raf. New Fl. N. Am. 2:49. 1836 [1837], *descr.* Arkansas, Texas.
bracteata Raf. op. cit. 50, *descr.* (*Baptisia bracteata* Muhl.; *B. leucophaea* Nutt.). Carolina to Missouri and Louisiana=*B. bracteata* Muhl.
cinerea Raf. l.c., *descr.* (*Baptisia villosa* auctt.). Carolina=*B. cinerea* (Raf.) Fernald & Schubert, Rhodora 50:201. 1948.
fulva Raf. op. cit. 49, *descr.* Tennessee and Arkansas=*B. villosa* (Walt.) Ell.
grandifolia Raf. l.c., 49, *nom. alt.* *L. bicolor* Raf. Arkansas, Texas.
mollis Raf. op. cit. 50, *descr.* (*Baptisia mollis* DC.). North Carolina=*Thermopsis mollis* (Michx.) M. A. Curtis.
pallens Raf. op. cit. 49, *descr.* Alabama and Appalachian Mountains.
reticulata Raf. op. cit. 48, *descr.* Carolina, Alabama, Florida.
- LATHYRUS** Linn.
incurvus Raf. Atl. Jour. 1:151. 1832, *descr.*, non Willd. (1800). Lakes Erie and Ontario.
**pusillus* Muhl. Cat. 65. 1813, *nom. subnud.*; Raf. Fl. Ludovic. 137. 1817, *nom.* Mississippi or Louisiana. An *Lathyrus pusillus* Ell. ?
- ***LEPEDERA** Raf. Med. Repos. II. 5:351. 1808, *nom.*, *sphalm.*=*Lespedeza* Michx. (1803).
- LOBOMON** Raf. New Fl. N. Am. 1:81. 1836, *descr.*=*Amphicarpa* Ell. (1818), *nom. conserv.* (*Falcata* J. F. Gmel., 1791; *Savia* Raf., 1808).
acutifolium Raf. op. cit. 84, *descr.* Ohio, Illinois=*Amphicarpa bracteata* (Linn.) Fernald.
montanum Raf. l.c., *descr.* (*Glycine montana* Raf.). Alleghany Mountains of Pennsylvania=*Amphicarpa bracteata* (Linn.) Fernald.
obtusifolium Raf. l.c., *descr.* Kentucky=*Amphicarpa bracteata* (Linn.) Fernald.
sarmentosum Raf. l.c., *descr.* (*Glycine sarmentosa* Roth; *Amphicarpa sarmentosa* Ell.). Carolina=*Amphicarpa bracteata* (Linn.) Fernald.
- LOMOPLIS** Raf. Sylva Tellur. 118. 1838, *descr.*=*Mimosa* Linn.
acantholoba Raf. l.c., *nom.* (*Acacia acantholoba* Humb. & Bonpl.). Tropical America=*Mimosa acantholoba* Poir.
ceratonia Raf. l.c., *nom.* (*Acacia ceratonia* Willd.). Tropical America=*Mimosa ceratonia* Linn.
- LOTULUS** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov.* Lotus Linn.
- LUGAION** Raf. Sylva Tellur. 22. 1838, *descr.*=*Genista* Linn.
angulatum Raf. l.c., *nom.* (*Spartium angulatum* Linn.). Asia Minor=*Genista angulata* Linn. (*G. parviflora* Poir.).
aphyllum Raf. l.c., *nom.* (*Spartium aphyllum* Pall.). Caspian region=*Eremosparton aphyllum* (Pall.) Fisch. & Mey.
etnense Raf. l.c., *nom.* (*Spartium trisperma* Sm.). Sicily=*Genista aethnensis* DC.=*G. trisperma* (Sm.) Spach.
ferox Raf. ex Jacks*. Ind. Kew. 2:123. 1894 (*Spartium ferox* Poir.). North Africa=*Genista ferox* Poir.
linifolium Raf. Sylva Tellur. 22. 1838, *nom.* (*Spartium linifolium* Desf.). North Africa=*Cytisus linifolius* Lam.
multiflorum Raf. l.c., *nom.* (*Spartium multiflorum* Ait.). Mediterranean region=*Cytisus albus* Link.
radiatum Raf. ex Jacks*. Ind. Kew. 2:123. 1894 (*Spartium radiatum* Linn.). Southern Europe=*Genista radiata* (Linn.) Scop.
umbellatum Raf. Sylva Tellur. 22. 1833, *nom.* (*Spartium umbellatum* L'Hérit.). North Africa=*Genista umbellata* Poir.
- LUPINUS** Linn.
**elatiar* Raf. Herb. Raf. 51. 1833, *nom.* Rocky Mountains or Oregon.
**levigatus* Raf. op. cit. 62, *nom.* Kentucky or Illinois.
**oregonensis* Raf. op. cit. 51, *nom.* Oregon.
**sericeus* Raf. l.c., *nom.* Rocky Mountains or Oregon.
**waltoni* Raf. l.c., *nom.* Rocky Mountains or Oregon.
- ***LYGAION** Raf. Sylva Tellur. 25. 1838, sub *Diaxulon* Raf., *nom.*=*Lugaion* Raf. op. cit. 22=*Genista* Linn.
- LYGOPLIS** Raf. Sylva Tellur. 23. 1838, *descr.*=*Genista* Linn.
**ferox* Raf. l.c., *nom.* (*Spartium ferox* Poir.). North Africa=*Genista ferox* Poir.
horridum Raf. l.c., *nom.* (*Spartium horridum* Vahl). Mediterranean region=*Genista horrida* DC.
spinosum Raf. l.c., *nom.* (*Spartium spinosum* Asso.). Europe=*Genista scorpius* DC.
villosum Raf. l.c., *nom.* (*Spartium villosum* Sieber). Greece=*Cytisus creticus* Boiss. & Heldr.
- MANDARUS** Raf. Sylva Tellur. 122. 1838, *descr.*=*Bauhinia* Linn.
acuminata Raf. l.c., *nom.* (*Bauhinia acuminata* Vell.). Brazil.
divaricata Raf. l.c., *nom.* (*Bauhinia divaricata* Linn.). South America.
pescapra Raf. l.c., *nom.* (*Bauhinia pes-caprae* Cav.). Mexico.
rotundifolia Raf. l.c., *nom.* (*Bauhinia rotundifolia* Pers.). Mexico.
utimuta Raf. ex Jacks*. Ind. Kew. 2:160. 1894=*B. outimouta* Aubl. Guiana.
- MEIEMANTHERA** Raf. Sylva Tellur. 25. 1838, *descr.*=*Cytisus* Linn., sect. *Trianthocytisus* Griseb.
eolica Raf. l.c., *descr.* (*Cytisus aolicus* Guss.; Lindl. Bot. Reg. 9: t. 1902. 1836). Lipari or Eolian Islands.
- MELIOBUS** (Mitchell, 1748); Raf. Sylva Tellur. 121. 1838, *descr.*=*Gleditsia* Linn. (*Gleditschia* Scop.).
heterophylla Raf. l.c., *descr.* (*Gleditschia heterophylla* Raf.). Louisiana=*Gleditsia triacanthos* Linn.
- MELILOTUS** Linn.
robini Raf. Fl. Ludovic. 102. 1817, *descr.* (*Mélilot des Indes* Rob. Voy. Louis. 3:502. 1807). Louisiana=*Melilotus indica* Linn.
- MIMOSA** Linn.
chionacantha Raf. Fl. Ludovic. 99. 1817, *descr.* (*Mimosa eburnea* sensu Rob. Voy. Louis. 3:496. 1807); New Fl. N. Am. 1:42. 1836, *nom.*, *nota.*; Sylva Tellur. 119. 1838, *nom.* in syn. sub *Panthocarpa chionacantha* Raf.). Louisiana, Florida=*Acacia farnesiana* (Linn.) Willd.
**illinoensis* Raf. Casket 1827:195. 1827, *nom.* Illinois. Prob. =*Desmanthus illinoensis* (Michx.) MacM.
**julibriss* Raf. Med. Fl. 2:243. 1830, *nom.*=*Albizzia julibrissin* Durazz.
**lilibriss* Raf. First Cat. Bot. Gard. Transylv. Univ. 22. 1824, *nom.*, *sphalm.*=*praec.*
- MITOSTAX** Raf. Sylva Tellur. 120. 1838, *descr.*=*Prosopis* Linn.
pallida Raf. l.c., *nom.* (*Acacia pallida* Humb. & Bonpl.). Tropical America=*Prosopis juliflora* (Sw.) DC.
- MONOLECTRA** Raf. Fl. Ludovic. 106. 1817, *nom. alt.* *Darwinia* Raf.; Fl. Tellur. 1:16. 1836 [1837], *nom.*=*Sesbania* Scop. (1777), *nom. conserv.* (*Sesban* Adams., 1763; *Agati* Adams., 1763).
- MONOSEMEION** Raf. Aut. Bot. 82. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*=*Amorpha* Linn.
obliquatum Raf. l.c., *descr.*; Pennell, l.c., *nom.* North America ?
- MONOTELES** Raf. Sylva Tellur. 122. 1838, *descr.*=*Bauhinia* Linn.
paradoxa Raf. l.c., *nom.* (*Bauhinia monandra* Raf.). Hab. ?
- NEFRAKIS** Raf. Sylva Tellur. 69. 1838, *descr.*=*Brya* P. Browne (1756).
ebenus Raf. l.c., *nom.* (*Aspalathus ebenus* Linn.). West Indies, South America=*Brya ebenus* (Linn.) DC.=*B. buxifolia* (Murr.) Urb.
- NELTUMA** Raf. Sylva Tellur. 119. 1838, *descr.*=*Prosopis* Linn.
arenosa Raf. l.c., *nom.* [*Acacia arenosa* Willd.]. Tropical America=*Mimosa arenosa* Poir.
juliflora Raf. l.c., *nom.* [*Acacia juliflora* Willd.]. Tropical America=*Prosopis juliflora* (Sw.) DC.
- NICTITELLA** Raf. Sylva Tellur. 128. 1838, *descr.*=*Chamaecrista* Moench (1794)=*Cassia* Linn. sect. *Chamaecrista* DC.
amena Raf. l.c., *nom.* (*Cassia nictitans* Linn.). Tropical America. (*Cassia procumbens* Linn.).

- **amoena* Raf. ex S. Wats. *Bibl. Ind. N. Am. Bot.* 1:207. 1878, *nom. in syn.*=*praec.*
- aspera* Raf. l.c., *nom.* [*Cassia aspera* Muhl. Cat. 42. 1813]. Southeastern United States. (*Chamaecrista aspera* Greene).
- mimosoides* Raf. l.c., *nom.* [*Cassia mimosoides* Linn.]. Tropical Asia.
- NUBIGENA** Raf. *Sylva Tellur.* 23. 1838, *descr.*=*Cytisus* Linn. *tenerifa* Raf. l.c., *descr.* (*Spartium nubigenum* Ait.; *Cytisus nubigenus* Link). Teneriffe=*Cytisus fragrans* Lam.
- OCTELISIA** Raf. *Sylva Tellur.* 129. 1838, *descr.*=*Cassia* Linn. *aurea* Raf. op. cit. 130, *descr.* (*Cassia purpurea* Roxb.; Ker-Gawl. Bot. Reg. 10: t. 856. 1825). Bengal=*Cassia sophora* Linn.
- ***OESCHYNOMENE** Raf. *Fl. Ludov.* 137. 1817, *nom. sub* *Sesbania* Scop. *sphalm.*=*Aeschynomene* Linn. (*Glottidium* Desv., 1813).
- **platycarpa* Raf. l.c., *nom. sub* *Sesbania macrocarpa* Muhl. Louisiana=*Aeschynomene platycarpa* Michx.=*Sesbania vesicaria* Ell. (*Glottidium vesicarium* (Jacq.) Harper).
- OPHIOCAULON** Raf. *Sylva Tellur.* 129. 1838, *descr.*=*Chamaecrista* Moench (1794)=*Cassia* Linn. *serpens* Raf. l.c., *nom.* (*Cassia serpens* Linn.). Tropical America. (*Chamaecrista serpens* Greene).
- ORBEXILUM** Raf. *Atl. Jour.* 1:145. 1832, *descr.*=*Psoralea* Linn. *latifolium* Raf. l.c., *nom.* (*Psoralea latifolia* Torr.). Missouri=*Psoralea onobrychis* Nutt. (*Orbexilum onobrychis* Rydb., 1932).
- OROBUS** Linn.=*Lathyrus* Linn. *siculus* Raf. *Car. Nuov. Gen. Sp. Sicil.* 72. 1810, *descr.*; *Stat. Gen. Sicil.* 28. 1810, *nom.*; *Chloris Aetn.* 5, 9. 1815, *nom.* Sicily.
- OXYPOGON** Raf. *Jour. Phys. Chim. Hist. Nat.* 89:98. 1819, *descr.*; *Isis von Oken* 1820, 1: *Lit. Anz.* 237. 1820, *descr.*=*Lathyrus* Linn. *elegans* Raf. l.c., *descr.*; *Isis von Oken* 1: *Lit. Anz.* 238. 1820, *descr.*; *DC. Prodr.* 2:355. 1825, *nom. in syn. sub* *Vicia dumetorum* Linn. Hudson River, New York=*Lathyrus venosus* Muhl.
- OXYTROPIS** DC. **bradburyi* Raf. *Herb. Raf.* 38. 1833, *nom.* Upper Missouri (Mandan country)=Dakota. **mandanensis* Raf. op. cit. 39, *nom.* Upper Missouri (Mandan country)=Dakota.
- PANISIA** Raf. *Sylva Tellur.* 128. 1838, *descr.*=*Cassia* Linn. (*Peiranisia* Raf., 1838). *biflora* Raf. op. cit. 129, *nom.* (*Cassia biflora* Linn.; *Lindl. Bot. Reg.* 16: t. 1310. 1830). South America (*Peiranisia biflora* Pittier).
- PANTHOCARPA** Raf. *Neogen.* 2. 1825, *descr.*; *Sylva Tellur.* 119. 1838, *descr.*=*Acacia* Willd. (1805). *†chionacantha* Raf. *Sylva Tellur.* l.c., *descr.* (*Mimosa chionacantha* Raf.). Florida and Louisiana=*Acacia farnesiana* (Linn.) Willd.
- PATRINIA** Raf. *Jour. Phys. Chim. Hist. Nat.* 89:97. 1819, *descr.*; *Isis von Oken* 1820, 1: *Lit. Anz.* 237. 1820, *descr.*; *Herb. Raf.* 38. 1833, *nom., nota, non* Juss. (1807)=*Vexibia* Raf. (1825)=*Sophora* Linn. *sericea* Raf. *Jour. Phys. et Isis Ilcc., descr., nom.* (*Sophora sericea* Nutt. fide Raf. *Herb. Raf.* l.c.). Missouri=*Sophora sericea* Nutt.
- PEIRANISIA** Raf. *Sylva Tellur.* 127. 1838, *descr.*=*Cassia* Linn. *aversiflora* Raf.¹⁸ l.c., *descr.* (*Cassia aversiflora* Hook. Bot. Mag. 53: t. 2638. 1826). Brazil. *aversifolia* Raf. ex Jacks*. *Ind. Kew.* 2:447. 1894, *sphalm.*=*praec.*
- PERICAULON** Raf. *New Fl. N. Am.* 2:46, *nom.* 50, *descr.* 1836 [1837]; *Good Book* 45. 1840, *nom.*=*Baptisia* Vent. (1808). *cordatum* Raf. op. cit. 51, *nom., nota, in obs. sub* *P. perfoliatum* Raf. North America. *microphyllum* Raf. l.c., *descr.* (*Baptisia microphylla* Nutt.). Alabama, Florida. *perfoliatum* Raf. l.c., *descr.* [*Baptisia perfoliata* R. Br.]. Carolina to Florida=*Baptisia perfoliata* (Linn.) R. Br.
- PERIMA** Raf. *Sylva Tellur.* 118. 1838, *descr.*=*Entada* Adans. (1763), *nom. conserv.* (*Gigalobium* Boehm., 1760). *odorata* Raf. l.c., *descr.* (*Mimosa scandens* Linn.; *Perimkakuvalli* Rheede, Hort. Malabar. 8:59. t. 32. 1688; *Faba marina* Rumph. Herb. Amb. 5:5. t. 4. 1747) [India, Moluccas]=*Entada phaseoloides* (Linn.) Merr. (*Entada scandens* Benth.); see Merrill, Interpret. Rumph. Herb. Amb. 253. 1917.
- ***PETAGNIANA** Raf. *Specch. Sci.* 1:157. 1814, *nom. in obs.*=*Petagnana* Gmel. (1791)=*Smithia* Ait. (1789), *nom. conserv.* (*Damapana* Adans., 1763).
- ***PETALVITEMON** Raf. *Western Rev. Miscel. Mag.* 1:95. 1819, *nom., sphalm.* fide Raf. op. cit. 128=*Petalostemon* Michx. (1803). *candidum* Raf. l.c., *nom.* Kentucky=*Petalostemon candidum* Michx. *purpureum* Raf. l.c., *nom.* Kentucky=*Petalostemon purpureum* (Vent.) Rydb.
- PHANERA** Lour.=*Bauhinia* Linn. **scandens* Raf. *Sylva Tellur.* 122. 1838, *nom.* (*Bauhinia scandens* Linn.). India.
- PHYSONDRA** Raf. *Atl. Jour.* 1:145. 1832, *descr.*=*Phaca* Linn. *dispar* Raf. l.c., *nom.* (*Orobis dispar* Nutt.). Fort Mandan [North Dakota]=*Homalobus dispar* (Nutt.) Nutt. *longifolia* Raf. l.c., *nom.* [*Psoralea longifolia* Pursh; *Orobis longifolius* Nutt.]. Missouri River=*Phaca longifolia* (Pursh) Nutt.
- PISUM** Linn. *biflorum* Raf. *Car. Nuov. Gen. Sp. Sicil.* 71. 1810, *descr.*; *Stat. Gen. Sicil.* 28. 1810, *nom.* Sicily. *dasigynum* Raf. *Am. Monthly Mag. Crit. Rev.* 4:194. 1819, *nom. nov.* *Pisum maritimum* sensu Nutt. North America=*Lathyrus japonicus* (Thunb.) Willd. var. *glaber* (Ser.) Fernald (*Lathyrus maritimus* Bigel.); see Fernald, *Rhoda* 34:181. 1932. *parviflorum* Raf. *Med. Repos. II.* 5:354. 1808, *nom.*; *Jour. Bot. (Paris)* 2:173. 1809, *nom.* Eastern United States.
- PLEUROMENES** Raf. *Sylva Tellur.* 144. 1838, *descr.*=*Prosopis* Linn. *heterocarpa* Raf. op. cit. 145, *descr.* (*Acacia heterocarpa* Delile). Syria, Egypt, Nubia=*Prosopis stephaniana* (Willd.) Spreng.
- POPONAX** Raf. *Sylva Tellur.* 118. 1838, *descr.*=*Acacia* Willd. (1805). *farnesiana* Raf. l.c., *nom.* [*Mimosa farnesiana* Linn.; *Acacia farnesiana* Willd.]. Pantropic. *tortuosa* Raf. l.c., *nom.* (*Mimosa tortuosa* Linn.; *Acacia tortuosa* Willd.). South America.
- PSORALEA** Linn. **longipes* Raf. *Herb. Raf.* 63. 1833, *nom.*=Kentucky or Illinois. **rigida* Raf. op. cit. 57, 79, *nom.* Florida. *†RAFINESQUIA* Raf. *Fl. Tellur.* 1:17. 1836 [1837], *nom.*; op. cit. 2:96. 1836 [1837], *descr.*=*Hosackia* Dougl. (1829). *comosa* Raf. op. cit. 2:96, *descr.* (*Lotus pinnatus* Hook. Bot. Mag. 56: t. 2913. 1829). Oregon=*Hosackia bicolor* Dougl. ex Benth. Bot. Reg. 15: t. 1257. 1829. *obovata* Raf. op. cit. 97, *nom., nota.* Oregon.
- ***RATANHIA** Raf. *Med. Fl.* 2:234. 1830, *nom. nov. provis.*=*Krameria* Loeffl. (1758). **officinalis* Raf. l.c., *nom. nov.* *Krameria triandra* Ruiz & Pavon. Peru.
- RESUPINARIA** Raf. *Sylva Tellur.* 115. 1838, *descr.*=*Sesbania* Scop. (1777), *nom. conserv.* (*Sesban* Adans., 1763; *Agati* Adans., 1763). *grandiflora* Raf. op. cit. 116, *nom.* (*Aeschynomene grandiflora* Linn.; *Sesbania grandiflora* Pers.; *Coronilla grandiflora* Willd.). India=*Sesbania grandiflora* (Linn.) Pers.
- RETAMA** Raf. *Sylva Tellur.* 22. 1838, *descr.*=*Genista* Linn. *albiflora* Raf. l.c., *descr.* (*Spartium monospermum* Linn.; *Sims Bot. Mag.* 17: t. 683. 1803; *Genista monosperma* Lam.; *Lindl. Bot. Reg.* 22: t. 1918. 1836). Mediterranean region=*Genista monosperma* (Linn.) Lam. *lutea* Raf. l.c., *descr.* (*Spartium sphaerocarpum* Linn.). Mediterranean region=*Genista sphaerocarpa* (Linn.) Lam.
- ***RIPARIA** Raf. *Good Book* 45. 1840, *nom.*=seq.
- RIPASIA** Raf. *New Fl. N. Am.* 2:46, *nom.*, 48, *descr.*, 1836 [1837]=*Baptisia* Vent. (1808).

¹⁸ The entry is "St. aversiflora Raf." Here Rafinesque apparently first adopted a generic name beginning with S, changed it to *Peiranisia* in the generic entry but neglected to change it for the binomial; or if not, then a typographic error is involved.

RIPASIA (*continued*).

cerulea Raf. op. cit. 48, *descr.* (*Podalyria coerulea* Michx.; *Baptisia *coerulea* Eaton, Man. ed. 4. 228. 1824; *Sophora australis* Linn.; *Sophora coerulea* Moench). Maryland to Ohio, Louisiana and Florida=*Baptisia australis* (Linn.) R. Br.

var. *macrostachys* Raf. l.c., *nom.*
obtusifolia Raf. l.c., *nom.*
rhombifolia Raf. l.c., *nom.*

ROBINIA Linn.

ludoviciana Raf. Fl. Ludovic. 164. 1817, *nom. nov. provis.*, *nota*. Louisiana (Lake Bistineau).

#**ROSTELLA** Raf. Sylva Tellur. 129. 1838, *descr.*, subgen.

Cassia Linn. (Type *Cassia ruscifolia* Jacq.)=*Cassia* Linn.

SAVIA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* sub *Thyrsanthus* Ell.; Fl. Tellur. 1:16. 1836 [1837], *nom.*, non Willd. (1805)=*Amphicarpa* Ell. (1818), *nom. conserv.* (*Falcata* J. F. Gmel., 1791; *Savia* Raf., 1808).

volubilis Raf. l.c., *nom.* (*Glycine monoica* Linn.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* Eastern North America=*Amphicarpa bracteata* (Linn.) Fernald.

SCALIGERA Adans.; Raf. Sylva Tellur. 69. 1838, *descr.*=*Aspalathus* Linn.

orientalis Raf. l.c. [*Aspalathus orientalis* Linn.]. Asia Minor.

SCHRANKIA Willd. (1806), non Medic. (1792), *nom. conserv.* (*Leptoglottis* DC., 1825; *Morongia* Britton, 1894).

mexicana Raf. New Fl. N. Am. 1:43. 1836, *descr.* (*Mimosa quadrivalvis* Linn.). Mexico and ? Texas=*Schranksia quadrivalvis* (Linn.) Merr. (*S. aculeata* Willd.; *Leptoglottis quadrivalvis* Britton & Rose, 1928).

SCOLOBUS Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom. nov. provis.* (*Cytisus rhombifolius* Pursh); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.* (*Cytisus rhombifolius* Pursh); Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.* sub *Thermopsis* R. Br., iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942=*Thermopsis* R. Br. (1811).**SCOLODIA** Raf. Sylva Tellur. 128. 1838, *descr.*=*Cassia* Linn. *viminea* Raf. l.c., *nom.* (*Cassia viminea* Linn.). Tropical America.**SEMETOR** Raf. Sylva Tellur. 69. 1838, *descr.*=*Derris* Loureiro (1790), *nom. conserv.* (*Salken* Adans., 1763; *Solori* Adans., 1763; *Dequelia* Aubl., 1775; *Cylizoma* Neck., 1790).

arborea Raf. l.c., *descr.* (*Aspalathus arborea* Lour.). Indo-China (Annam)=*Derris heptaphylla* (Linn.) Merr.; see Merrill, Trans. Am. Philos. Soc. II. 24(2): 206. 1935.

SENEGALIA Raf. Sylva Tellur. 119. 1838, *descr.*=*Acacia* Willd. (1805).

retusa Raf. l.c., *nom.* [*Mimosa retusa* Jacq.]. West Indies=*Acacia riparia* H.B.K.

triacantha Raf. l.c., *nom.* (*Mimosa senegal* Linn.). Tropical Africa, India=*Acacia senegal* (Linn.) Willd.

SENNA Mill.=*Cassia* Linn.

riparia Raf. Med. Fl. 1:94. 1828, *nom. nov.* *Cassia marilandica* Linn., iter. Man. Med. Bot. 94. 1841; Casket 1830:521. 1830, *nom.* Eastern North America=*Cassia marilandica* Linn.

SENSITIVA Raf. Sylva Tellur. 119. 1838, *descr.*=*Mimosa* Linn.

pudica Raf. ex Jacks*. Ind. Kew. 2:883. 1895 (*Mimosa pudica* Linn.). Tropical America.

SERICANDRA Raf. Sylva Tellur. 119. 1838, *descr.*=*Albizia* [Albizia] Durazz. (1772).

julibrissin Raf. l.c., *nom.* (*Acacia julibrissin* Willd.). India=*Albizia julibrissin* Durazz.

lophantha Raf. l.c., *nom.* (*Acacia lophantha* Willd.). Australia=*Albizia lophantha* (Willd.) Benth.

pennata Raf. l.c., *nom.* (*Acacia pennata* Willd.). India=*Acacia pennata* Willd.

SPARTIUM Linn.

aetnense Raf. Chloris Aetn. 9. 1815, *nom.*; Précis Découv. Somiol. 1814, *nom.* (p. 4 of cover); Jour. Bot. (Desv.) 4:277 (err. 177). 1814, *nom.* Sicily=*S. aetnense* Bivona (1807).

angulatum Raf. Précis Découv. Somiol. 37. 1814 *descr.*; Jour. Bot. (Desv.) 4:269. 1814, *descr.* Maryland, near Annapolis=*Cytisus scoparius* (Linn.) Link.

**etnense* Raf. Specch. Sci. 1:17. 1814, *descr.* Sicily=*S. aetnense* Bivona (1807).

SPATULIMA Raf. Fl. Tellur. 2:83. 1836 [1837], *descr.*=*Lathyrus* Linn.

angustifolia Raf. l.c., *descr.* (*Orobis sessilifolius* Sm.; Hook. Bot. Mag. 55: t. 2796. 1828). Crimea, Greece, Sicily.

SPIROLOBA Raf. Sylva Tellur. 119. 1838, *descr.*=*Pithecellobium* Mart. (1837), *nom. conserv.* (*Zygia* Boehm., 1760; *Pithecolobium* auctt.).

bigemina Raf. l.c., *nom.* (*Mimosa bigemina* Linn.). India=*Pithecolobium* (*Pithecolobium*) *bigeminum* (Linn.) Mart.

fastuosa Raf. l.c., *nom.* (*Inga fastuosa* Willd.). Venezuela.

unguis Raf. l.c. *nom.* (*Mimosa unguis-cati* Linn.). Tropical America=*Pithecellobium* (*Pithecolobium*) *unguis-cati* (Linn.) Mart.

STEMEIA Raf. Atl. Jour. 1:144. 1832, *nom. subnud.* sub *Dimenops* Raf.=*Krameria* Loeffl. (1758).***STREPSILOBA** Raf. Sylva Tellur. 119. 1838, *nom.*=seq.**STREPSILOBUS** Raf. Sylva Tellur. 117. 1838, *descr.*=*Entada* Adans. (1763), *nom. conserv.* (*Gigalobium* Boehm., 1760).

scandens Raf. op. cit. 118, *descr.* (*Mimosa scandens* sensu Sw.). West Indies=*Entada gigas* (Linn.) Fawc. & Rendle.

***STYLVIANTHES** Raf. Western Rev. Miscel. Mag. 1:94. 1819, *nom.*, *sphalm.*=*Stylosanthes* Sw. (1788).

**elator* Raf. l.c., *nom.* Kentucky=*Stylosanthes elator* Sw.=*Stylosanthes biflora* (Linn.) Britton, Sterns & Poggenb.

TAGERA Raf. Sylva Tellur. 129. 1838, *descr.*=*Chamaecrista* Moench (1794)=*Cassia* Linn.

filiformis Raf. l.c., *nom.* (*Cassia tagera* Linn.). Tropical America. (*Chamaecrista tagera* Standl.).

TELESTRIA Raf. Sylva Tellur. 122. 1838, *descr.*=*Bauhinia* Linn.

purpurea Raf. l.c., *nom.* (*Bauhinia purpurea* Linn.). India.

racemosa Raf. l.c., *nom.* (*Bauhinia racemosa* Lam.). India.

#**TERELEGUS** Raf. Sylva Tellur. 129. 1838, *descr.*, subgen. *Tagera* Raf. (Type *Cassia corymbosa* Lam.)=*Cassia* Linn.**TETRODEA** Raf. New Fl. N. Am. 1:81. 1836, *nom.* (Type *Glycine monoica* Linn.)=*Amphicarpa* Ell. (1818), *nom. conserv.* (*Falcata* J. F. Gmel., 1791; *Savia* Raf., 1808).

comosa Raf. ex Jacks*. Ind. Kew. 2:1055. 1895 (*Glycine comosa* Linn.)=*Amphicarpa bracteata* (Linn.) Fernald. Eastern North America.

monoica Raf. ex Jacks*. l.c. (*Glycine monoica* Linn.). Eastern North America=*prae.*

subterranea Raf. ex Jacks*. l.c. (*Glycine subterranea* Linn.)=*Voandzeia subterranea* (Linn.) Thouars. Tropical Africa.

***TETRODES** Raf. New Fl. N. Am. 1:84. 1836, *nom.*=*Tetrodea* Raf.=*Amphicarpa* Ell. (1818), *nom. conserv.* (*Falcata* J. F. Gmel., 1791; *Savia* Raf., 1808).**THYRSANTHUS** Ell. (1818)=*Wisteria* Nutt. (1818), *nom. conserv.* (*Kraunhia* Raf., 1808; *Diplonx* Raf., 1817).

**scandens* Raf. First. Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.* Kentucky. Prob.=*Wisteria speciosa* Nutt.

#**TRANSVERSULA** Raf. Sylva Tellur. 129. 1838, *descr.* sub *Tagera* Raf., subgen. *Cassia* Linn. (Type *Cassia chinensis* Jacq.)=*Cassia* Linn.**TRICOLENDUS** Raf. Fl. Tellur. 2:97. 1836 [1837], *descr.*=*Indigofera* Linn.

microphyllus Raf. l.c., *descr.* (*Lotus microphyllus* Hook. Bot. Mag. 55: t. 2808. 1828). South Africa=*Indigofera gracilis* Spreng.

TRIENDILIX Raf. New Fl. N. Am. 1:85. 1836, *descr.*=*Glycine* Linn.

clandestina Raf. l.c., *descr.* (*Glycine clandestina* Wendl.). Australia.

TRIFOLIUM Linn.

ludovicianum Raf. Fl. Ludovic. 102. 1817, *descr.* (*Trèfle* 1, Rob. Voy. Louis. 3:501. 1807). Louisiana.

TROPITOMA Raf. New Fl. N. Am. 2:19. 1836 [1837], *descr.*=*Desmodium* Desv. (1813), *nom. conserv.* (*Meibomia* Adans., 1763; *Pleurolobus* J. St. Hil., 1812).

paradoxa Raf. l.c., *descr.* Kentucky=*Desmodium leucanthum* Raf. l.c.=*D. marilandicum* (Linn.) DC.

†**VERZINUM** Raf. Herb. Raf. 38. 1833, *nom.*; Act. Soc. Linn. Bordeaux 6:265. 1834, *nom.*, *nota*, iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.*, *nota*, non Raf. (1838)=*Thermopsis* R. Br. (1811).

**rhombifolium* Raf. Herb. Raf. 38. 1833, *nom.* (*Thermopsis rhombifolia* Richards.; *Cytisus rhombifolius* Pursh.). Upper Missouri (Mandan country)=*Dakota*=*Thermopsis rhombifolia* (Nutt.) Richards.

VERZINUM Raf. Sylva Tellur. 23. 1838, *descr.*, non Raf. (1833)=*Cytisus* Linn.

- arborescens Raf. l.c., nom. (*Spartium arborescens* Desf.). North Africa=*Cytisus arborescens* (Desf.) DC.
- patens Raf. l.c., nom. (*Spartium patens* Murr.). Iberian Peninsula=*Cytisus patens* Murr.
- VEXIBIA** Raf. Neogen. 3. 1825, nom. nov. *Patrinia* Raf. (1819), non *Patrinia* Juss. (1807); Atl. Jour. 1:144. 1832, descr.; Herb. Raf. 38. 1833, nom.; New Fl. N. Am. 2:53. 1836 [1837], nom.=*Sophora* Linn.
- *sericea Raf. Atl. Jour. 1:144. 1832, nom. (*Sophora sericea* Nutt.); Herb. Raf. 38. 1833, nom. (*Sophora sericea* Nutt.). Central United States.
- VEXILLARIA** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, nom.; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, nom.; Act. Soc. Linn. Bordeaux 6:265. 1834, nom., nota=**Vexillaria* Eaton, Man. 83. 1817=*Clitoria* Linn.
- *mariana Eaton, Man. 83. 1817; Raf. ex Jacks*. Ind. Kew. 2:1193. 1895 (*Clitoria mariana* Linn.). North America.
- VIBEXIA** Raf. ex Jacks*. Ind. Kew. 2:1193. 1895, sphalm.=*Vexibia* Raf.=*Sophora* Linn.
- sericea Raf. ex Jacks*. l.c.=*Vexibia sericea* Raf.=*Sophora sericea* Nutt. Western United States.
- VICIA** Linn.
- bivonea Raf. Précis Découv. Somiol. 37. 1814, descr., nom. nov. *Vicia leucantha* Bivona; Jour. Bot. (Desv.) 4:269. 1814, descr. (*Vicia leucantha* Bivona); Specch. Sci. 2:8. 1814, nom., nota, nom. nov. *Vicia parviflora* Bivona; Chloris Aetn. 4. 1815, nom. Sicily.
- craccoides Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819 (*craccoides*), nom. nov. *Vicia cracca* sensu Pursh; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, nom. (*Vicia cracca* sensu Pursh); Med. Fl. 2:113. 1830, nom. North America=*Vicia cracca* Linn.
- fabia Linn.; Raf. Med. Fl. 2:112. 1830. Europe.
- var. equina Raf. l.c., descr.
- media Raf. l.c., descr.
- megasperma Raf. l.c., descr.
- nigra Raf. l.c., descr.
- obtusifolia Raf. l.c., descr.
- odoratissima Raf. l.c., descr.
- racemosa Raf. l.c., descr.
- rubra Raf. l.c., descr.
- turgida Raf. l.c., descr.
- leptophylla Raf. Car. Nuov. Gen. Sp. Sicil. 71. 1810, descr.; Stat. Gen. Sicil. 28. 1810, nom.; Chloris Aetn. 5. 1815, nom.; Aut. Bot. 10. 1840, nom. (*leptophylla*). Sicily.
- *mitchella Raf. ex Eaton Man. 81. 1817, descr., sphalm.=seq. mitchelli Raf. Précis Découv. Somiol. 37. 1814, descr.; Jour. Bot. (Desv.) 4:269. 1814, descr. (*mitchelli*); Am. Monthly Mag. Crit. Rev. 1:429. 1817, nom.; op. cit. 2:268. 1818, nom. (*Pisum maritimum* sensu Pursh). New York=*Vicia hirsuta* (Linn.) Koch.
- *parviflora Bivona ex Raf. Chloris Aetn. 4. 1813, nom., sub *Vicia bivonea* Raf. Sicily.
- spuria Raf. Car. Nuov. Gen. Sp. Sicil. 72. 1810, descr.; Stat. Gen. Sicil. 28. 1810, nom.; Chloris Aetn. 4. 1815, nom. Sicily.
- *triflora Raf. Herb. Raf. 38. 1833, nom. Upper Missouri (Mandan country)=Dakota.
- VIRGILIA** Lam.
- *alba Raf. Kentucky Gaz. 1822,¹⁰ fide Raf. Cincinnati Lit. Gaz. 1:60. 1824, nom. Kentucky=*Cladrastis lutea* (Michx. f.) K. Koch.
- *kentuckensis Raf. Neogen. 1. 1825, nom., in syn.; New Fl. N. Am. 3:83, 84. 1836 [1838], nom., nota [*Virgilia kentuckea* Dum. Cours.]. Kentucky=*Cladrastis lutea* (Michx. f.) K. Koch.
- XAMACRISTA** Raf. Sylva Tellur. 127. 1838, descr.=*Chamaecrista* Moench (1794)=*Cassia* Linn.
- triflora Raf. l.c., nom. (*Cassia chamaecrista* Linn.). North America.

¹⁰ The Kentucky Gazette reference has not been seen, but Rafinesque states, Cincinnati Lit. Gaz. 1:60. 1824, that he used this binomial in the former periodical in 1822; whether or not he actually described the species there cannot be determined as I have seen no complete copy of the volume of the Kentucky Gazette for 1822. It is suspected that this binomial may have appeared in Rafinesque's "The cosmologist VI," in the Kentucky Gazette for March 7, 1822. No copy of this number has been located. See Fitzpatrick, T. J. Rafinesque, 123. 1911.

- XYPHANTHUS** Raf. Fl. Ludovic. 103. 1817, descr.=*Erythrina* Linn.
- hederifolius Raf. l.c., descr. (*Erythrina* Rob. Voy. Louis. 3:503. 1807). Louisiana=*Erythrina herbacea* Linn.
- ***XYPHERUS** Raf. Jour. Phys. Chim. Hist. Nat. 89:260. 1819, nom. nov. *Amphicarpa* Ell. (1818)=*Amphicarpa* Ell., 1818, nom. conserv. (*Falcata* J. F. Gmel., 1791; *Savia* Raf., 1808).
- †**ZAGA** Raf. Fl. Tellur. 1:16. 1836 [1837], nom.; op. cit. 2:33. 1836 [1837], descr.=*Adenanthera* Linn.
- latifolia Raf. l.c., descr. (*Zaga* Rumph. [*Corallaria parvifolia* Rumph. Herb. Amb. 3:173. t. 109. 1743]). *Moluccas*=*Adenanthera pavonina* Linn.; see Merrill, Interpret. Rumph. Herb. Amb. 252. 1917.
- parvifolia Raf. l.c., descr. (*Zaga* Rumph. [*Corallaria parvifolia* Rumph. l.c.]). *Moluccas*=*Adenanthera pavonina* Linn.
- ZANTHYRSIS** Raf. New Fl. N. Am. 3:84. 1836 [1838], descr.=*Sophora* Linn.
- paniculata Raf. l.c., descr.; Aut. Bot. 78. 1840, nom. Florida, Cuba=*Sophora tomentosa* Linn.
- ZIGMALOBA** Raf. Sylva Tellur. 120. 1838, descr.=*Acacia* Willd. (1805).
- sulcata Raf. l.c., nom. (*Acacia sulcata* R. Br.). Australia.

GERANIACEAE

- GERANIUM** Linn.
- lenticulum Raf. New Fl. N. Am. 2:34. 1836 [1837], descr. Tennessee, Kentucky.
- ludovicianum Raf. Fl. Ludovic. 89. 1817, descr. (*Geranium* Rob. Voy. Louis. 3:477. 1807). Louisiana.
- maculatum Linn.; Raf. Med. Fl. 1:217. 1828, descr., iter. Man. Med. Bot. 217. 1841. Eastern United States.
- var. albiflorum Raf. l.c., nom.
- diphyllum Raf. l.c., nom.
- humile Raf. l.c., nom.
- macrophyllum Raf. l.c., nom.
- viride Raf. l.c., nom.
- †pedatum Raf. Herb. Raf. 60. 1833, nom.; New Fl. N. Am. 2:34. 1836 [1837], descr. Kentucky, Illinois.
- *tenesicum Raf. Herb. Raf. 60. 1833, nom. Tennessee.

OXALIDACEAE

- OXALIS** Linn.
- acetosella Linn. Europe, North America.
- var. cespitosa Raf. Med. Fl. 2:47. 1830, descr.; Casket 1832:282. 1832, descr.; Sat. Eve. Post 11(566): [4]. 1832, descr.
- minor Raf. l.c., descr. Canada, New England, New York.
- montana Raf. l.c., descr. Catskill and Alleghany Mountains.
- nutans Raf. l.c., descr.
- *biflora Raf. Am. Jour. Sci. 1:82. 1818, nom. Philadelphia.
- cespitosa Raf. New Fl. N. Am. 2:27. 1836 [1837], descr. Western Kentucky and Tennessee.
- *cespitula Raf. Herb. Raf. 61. 1833, nom. Kentucky or Illinois=praec.?
- glauca Raf. ex DC. Prodr. 1:692. 1824, nom. in syn.=O. florida Salisb.
- *microphylla Raf. op. cit. 70, nom. Long Island, New Jersey, Chesapeake Bay.
- montana Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, nom. (*Oxalis acetosella* sensu Pursh); Ann. Nat. Ann. Synop. 12. 1820, descr. Catskill Mountains=O. acetosella Linn.
- *pumila Raf. Herb. Raf. 68. 1833, nom. Alleghany Mountains.
- †rueprestris Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, nom.; Herb. Raf. 61. 1833, nom.; New Fl. N. Am. 2:26. 1836 [1837], descr. Cliffs along the Kentucky River.
- sanguinolaria Raf. Fl. Ludovic. 89. 1817, descr. (*Surelle* 1 Rob. Voy. Louis. 3:477. 1807); Med. Fl. 2:47. 1830, nom., nota; Casket 1832:282. 1832, nom., nota; Sat. Eve. Post 11(580): [4] 1832, nom., nota. Louisiana=*Oxalis corniculata* Linn.

LINACEAE

LINUM Linn.

- *berenderi Raf. Fl. Tellur. 3:33. 1836 [1837], *nom. sub Mesynium texense* Raf., *sphalm.* = *L. berendieri* [berlandieri] Hook. Texas.
 cuspidatum Raf. New Fl. N. Am. 4:66. 1836 [1838], *nom. alt. Nezera cuspidata* Raf. Texas.
 imbricatum Raf. l.c., *nom. alt. Nezera imbricata* Raf. Texas.
 refractum Raf. op. cit. 64, *descr.* "Origon or Canada."
 rubrum Raf. Car. Nuov. Gen. Sp. Sicil. 74. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.* Sicily = *Linum decumbens* Desf. Fl. Atl. 1:278. t. 79. 1798.
 virginicum Linn. Eastern North America.
 var. foliosum Raf. New Fl. N. Am. 4:64. 1836 [1838], *nom.*
 oppositifolium Raf. l.c., *nom.*
 pauciflorum Raf. l.c., *nom.*
 MESYNIUM Raf. Fl. Tellur. 3:33. 1836 [1837], *descr.* = *Cartholinum* Reichb. (1837) = *Linum* Linn.
 africanum Raf. l.c., *nom.* (*Linum monogynum* Forst. f.). New Zealand.
 chilense Raf. l.c., *nom.* (*Linum macraei* Benth.). Chile.
 mexicanum Raf. l.c., *descr.* (*Linum mexicanum* H.B.K.; Lindl. Bot. Reg. 16: t. 1326. 1830). Mexico.
 texense Raf. l.c., *descr.* (*Linum berenderi* [berendieri, Hook., H. berlandieri] Hook. Bot. Mag. 63: t. 3480. 1836). Texas.
 NEZERA Raf. New Fl. N. Am. 4:64. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.* = *Cartholinum* Reichb. (1837) = *Linum* Linn.
 albiflora Raf. New Fl. op. cit. 65, *descr.* Georgia and Carolina.
 carnea Raf. l.c., *descr.* Florida.
 cuspidata Raf. op. cit. 66, *descr.* Texas.
 imbricata Raf. l.c., *descr.* Texas.
 NUMISAUREUM Raf. Fl. Tellur. 3:32. 1836 [1837], *descr.* = *Reinwardtia* Dum. (1822).
 acuminatum Raf. l.c., *descr.* (*Linum tetragynum* Colebr.). Nepal = *Reinwardtia tetragyna* (Colebr.) Planch.
 petiolatum Raf. l.c., *descr.* (*Linum trigynum* Roxb.; Sm. Exot. Bot. 1: t. 17. 1804-5; Lodd. Bot. Cab. 12: t. 1193. 1826). India = *Reinwardtia trigyna* (Roxb.) Planch.
 repens Raf. l.c., *nom.* Hab.?

ERYTHROXYLACEAE

- SETHIA H.B.K.; Raf. Sylva Tellur. 149. 1838, *descr.* = *Erythroxylum* P. Browne (1756).
 *indica Raf. l.c., *nom.* (*Erythroxylum monogynum* Roxb.). India.

ZYGOPHYLLACEAE

TRIBULUS Linn.

- *dimidiatus Raf. Aut. Bot. 176. 1840, *descr.* (*Tribulus jugatus* Nutt.). Carolina, Florida = *Kallstroemia maxima* (Linn.) Torr. & Gray.

RUTACEAE

CITRUS Linn.

- aurantium Linn. var. acida-spinosa Raf. Fl. Ludovic. 89. 1817, *nom.*, *nota* (*Orangers epineux* Rob. Voy. Louis. 3: 474. 1807). Louisiana.
 bergamota Raf. Sylva Tellur. 141. 1838, *descr.* "bergamot."
 cedrata Raf. l.c., *descr.* "citron" = *Citrus medica* Linn.
 var. inermis Raf. l.c., *nom.*
 italica Raf. l.c., *nom.*
 melarosa Raf. l.c., *nom.*
 syriaca Raf. l.c., *nom.*
 combara Raf. op. cit. 142, *descr.* India; "combara" in India.
 costata Raf. l.c., *descr.* India; "kalamba" or "kolombok" in India.
 fusiformis Raf. l.c., *descr.* "lemon."
 var. challi Raf. l.c., *nom.*
 parva Raf. l.c., *nom.*
 peretta Raf. l.c., *nom.*
 gongra Raf. l.c., *descr.*; "gongra" in Bengal.
 granulata Raf. op. cit. 143, *descr.* India; "granular lemon."
 heterophylla Raf. op. cit. 141, *descr.* Tartary; "Turkish orange."
 karna Raf. op. cit. 142, *descr.*; "karna" in India.

- *lima Raf. op. cit. 143, *descr.* = "lime" = *Citrus lima* Macf. (1830) = *Citrus aurantifolia* (Christm.) Swingle.

- var. costata Raf. l.c., *nom.*
 cucurbita Raf. l.c., *nom.*
 longifolia Raf. l.c., *nom.*
 magna Raf. l.c., *nom.*
 mamillaris Raf. l.c., *nom.*
 palustris Raf. l.c., *nom.*
 undulata Raf. l.c., *nom.*

- myrtifolia Raf. op. cit. 141, *descr.* China; "myrtle orange."
 obovata Raf. op. cit. 142, *descr.*; "sweet lemon."
 rotundifolia Raf. op. cit. 141, *descr.*; "poncire."

- var. undulata Raf. l.c., *nom.*
 violacea Raf. l.c., *nom.*

- salicifolia Raf. l.c., *descr.*

- CLADERIA Raf. Sylva Tellur. 12. 1838, *descr.* = *Murraya* [Murraea] Koenig (1771), *nom. conserv.* (*Camunium* Adans., 1763; *Chalcas* Linn., 1767; *Bergera* Koenig, 1771).
 parviflora Raf. l.c., *descr.* (*Carabou* Lam. Encycl. 1:612. 1785). [Kari-bepu Rheede, Hort. Malabar. 4:109. t. 53. 1683]. India = *Murraya koenigii* Spreng.

- *DIMEIUM Raf. Anal. Nat. Tabl. Univ. 174. 1815, *nom.* (*Zanthoxylon* sp.); Med. Fl. 2:114. 1830, *descr.*; Casket 1832:236. 1832, *descr.* (*Zanthoxylum spinosum* Sw.) = *Zanthoxylum* Linn.

- #HERCULIUM Raf. Med. Fl. 2:114. 1830, *descr.* subgen. *Xanthoxylum* "Linn." [J. F. Gmel.] (Types *X. clava* Raf.; *X. punctatum* Raf.); Casket 1832:236. 1832, *descr.*, subgen. vel gen. = *Zanthoxylum* Linn.

- *KAMPMANIA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.* = *Zanthoxylum* Linn.

- *fraxinifolia Raf. ll.c., *nom.* (*Zanthoxylum tricarpum* Michx.). North America = *Z. clava-herculis* Linn.

- KAMPMANNIA Raf. ex Jacks*. Ind. Kew. 1:3. 1894 = *Kampmania* Raf. = *Zanthoxylum* Linn.

- fraxinifolia Raf. ex Jacks*. l.c. (*Kampmania fraxinifolia* Raf.). North America = *Zanthoxylum clava-herculis* Linn.

- MAINEREGIA Raf. Sylva Tellur. 143. 1838, *descr.* (*Malnaregam* Adans.) = *Atalantia* Correa (1805), *nom. conserv.* (*Malnaregam* Adans., 1763).

- malabarica Raf. l.c., *descr.* (*Mal-Naregam* Rheede, Hort. Malabar. 4:27. t. 12. 1673 [1683]. India = *Atalantia monophylla* (Linn.) Corr.

- PONCIRUS Raf. Sylva Tellur. 143. 1838, *descr.*
 trifoliata Raf. l.c., *nom.* (*Citrus trifoliata* Linn.). China.

- *PSEUDETALON Raf. Fl. Ludovic. 10. 1817, *nom.*, *sphalm.* = seq.

- *glandulosum Raf. l.c., *nom.* = seq.

- PSEUDOPETALON Raf. Fl. Ludovic. 107. 1817, *descr.*; Med. Fl. 2:114. 1830, *descr.*; Casket 1832:236. 1832, *descr.*; Sat. Eve. Post 11(363):[4]. 1832, *descr.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* = *Zanthoxylum* Linn.

- glandulosum Raf. Fl. Ludovic. 108. 1817, *descr.* (*Zanthoxylum* Rob. Voy. Louis. 3:507. 1807); Med. Fl., Casket, et Sat. Eve. Post ll.c., *nom.*; Herb. Raf. 56. 1833, *nom.* Louisiana = *Zanthoxylum clava-herculis* Linn.

- tricarpum Raf. ex Jacks*. Ind. Kew. 2:639. 1895 (*Zanthoxylum tricarpum* Michx.). North America = *Zanthoxylum clava-herculis* Linn.

PTELEA Linn.

- tomentosa Raf. Fl. Ludovic. 108. 1817, *descr.* (*Ptelea* Rob. Voy. Louis. 3:509. 1807); Herb. Raf. 56. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana = *Ptelea trifoliata* Linn. var. *mollis* Torr. & Gray (1840) (*P. trifoliata* Linn. var. *tomentosa* Small, 1933; P. Wils. N. Am. Fl. 25:209. 1911 ut *P. tomentosa* Raf., cum syn.).

RUTA Linn.

- fimbriata Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.* Sicily.

- TENOREA Raf. Specch. Sci. 1:192. 1814, *descr.*; Précis Découv. Somiol. 1814 (p. 4 of cover), *nom.*; Jour. Bot. (Desv.) 4: 177 (err 277). 1814, *nom.*; Anal. Nat. Tabl. Univ. 174. 1815, *nom.*; Med. Fl. 2:114. 1830, *nom.*; Casket 1832:236. 1832, *nom.*; Sat. Eve. Post 11(563):[4], *nom.*, 1832 = ? *Zanthoxylum* Linn.

- corymbosa Raf. op. cit. 193, *descr.* West Indies = *Zanthoxylum* ? *corymbosum* DC., sp. dub.; see P. Wils. N. Am. Fl. 25:199. 1911.

- *THYLAX Raf. Med. Fl. 2:114. 1830, *descr.*; Casket 1832: 236. 1832, *descr.* = *Zanthoxylum* Linn.

- **fraxineum* Raf. Il.cc., nom. (*Zanthoxylum fraxineum* Willd.). Eastern North America=*Zanthoxylum americanum* Mill.
 **THYLAXUS* Raf. Anal. Nat. Tabl. Univ. 174. 1815, nom.=*praec.*
XANTHOXYLON Spreng. (1818)=*Zanthoxylum* Linn.
 **acuminatum* Raf. Med. Fl. 2:114. 1830, nom. [*Zanthoxylum acuminatum* Sw.]. Jamaica.
 **catesbianum* Raf. Med. Fl. 2:114. 1830, nom., nota (*Zanthoxylum clava-herculis* Linn., quoad hab. Carolina, Florida); Casket 1832:236. 1832, nom.=*Zanthoxylum clava-herculis* Linn.
 **clava* Raf. Med. Fl. l.c., nom. nov. [*Zanthoxylum clava-herculis* Linn.]; Casket 1832:236. 1832, nom., nota [*Zanthoxylum clava-herculis* Linn.]. Eastern North America=*Zanthoxylum clava-herculis* Linn.
 **emarginatum* Raf. Med. Fl. l.c. nom. [*Zanthoxylum emarginatum* Sw.]. West Indies.
 **fraxineum* Raf. op. cit. 113. f. 96, descr. [*Zanthoxylum fraxineum* Willd.]; Casket 1832:236. 1832, descr. Southeastern United States=*Zanthoxylum americanum* Mill.
 **glandulosum* Raf. op. cit. 116, nom., nota [*Pseudopetalon fraxineum* Raf.]; Casket 1832:236. 1832, nom., nota (*Pseudopetalon glandulosum* Raf.). Louisiana=*Zanthoxylum clava-herculis* Linn.
 **punctatum* Raf. op. cit. 114, nom. [*Zanthoxylum punctatum* Vahl]. West Indies=Fagara trifoliata Sw. fide Urban.
 **spinosum* Raf. l.c., nom. [*Zanthoxylum spinosum* Sw.]. West Indies.
 **tricarpum* Raf. l.c., nom. [*Zanthoxylum tricarpum* Michx.]. Southeastern United States=*Zanthoxylum clava-herculis* Linn.

SIMAROUBACEAE

- ***AYLANTHUS** Raf. Anal. Nat. Tabl. Univ. 174. 1815, nom.; Sylva Tellur. 1:28. 1836 [1837], nom.=*Ailanthus* Desf. (1786), nom. conserv. (*Pongelion* Adans., 1763).
BRUCEA J. S. Mill. (1780).
 **dyssenterica* Raf. First Cat. Bot. Gard. Transylv. Univ. 17. 1824, nom.=*B. antidysenterica* Lam. Tropical Asia, Malaysia.
 ***LUSSARIA** Raf. Anal. Nat. Tabl. Univ. 174. 1815, nom.; [*Lussa radja* Rumph. Herb. Amb. 7:27, t. 15. 1755]=*Brucea* J. S. Mill. (1780), nom. conserv. (*Lussa* Rumph., 1755; O. Kuntze, 1891).
RAXAMARIS Raf. Fl. Tellur. 3:54. 1836 [1837], descr.=*Soulamea* Lam. (1785).
parviflora Raf. op. cit. 55, descr. (*Rex amaroris* Rumph. Herb. Amb. 2:129, t. 41. 1741). Moluccas=*Soulamea amara* Lam.; see Merrill, Interpret. Rumph. Herb. Amb. 300. 1917.

MELIACEAE

- AZEDARA** Raf. Fl. Ludovic. 135. 1817, nom.=*Melia* Linn.
speciosa Raf. l.c., nom. (*Melia azedarach* Linn.). Tropical Asia.
 ***AZEDARACA** Raf. Med. Fl. 2:199. 1830, nom., nota=*Melia* Linn.
 **amena* Raf. l.c., nom. (*Melia azedarach* Linn.). Tropical Asia.
MELIA Linn.
 **azedarac* Raf. Med. Fl. 2:199. 1830, nom.=*Melia azedarach* Linn. India.
MIOPTRILA Raf.²⁰ Am. Man. Mulberry Trees 37. 1839, descr., p.p.=*Cedrela* P. Browne (1756) (*Toona* M. Roem., 1846).
odorata Raf. l.c., descr. China, p.p. (fruct.)=*Cedrela sinensis* Juss. (*Toona sinensis* M. Roem.).

POLYGALACEAE

- ***ANTHALLOGEA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, descr., iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 89, nom. (Type *Polygala polygama* Walt.)=seq.

²⁰ The description of this genus and species was manifestly based on two entirely different plants, as to the fruits and the Chinese name *hiang chun* definitely *Cedrela sinensis* Juss. (*Toona sinensis* M. Roem.), as to the leaves and flowers possibly some species of *Zanthoxylum* Linn. of the Rutaceae. Rafinesque, as was often the case, had no specimens.

- ANTHALLOGEA** Raf. New Fl. N. Am. 4:88. 1836 [1838], descr.=*Polygala* Linn.
polygama Raf. ex Jacks*. Ind. Kew. 1:143. 1893 (*Polygala polygama* Walt.); Nieuwl. Am. Midl. Nat. 3:180. 1914. North America.
 **rubella* Raf. ex Nieuwl. Am. Midl. Nat. 3:180. 1914, nom. in syn.=*praec.*
 †**ASEMIEIA** Raf. Herb. Raf. 80. 1833, descr. (*Polygala pubescens* sensu Ell.); Act. Soc. Linn. Bordeaux 6:364. 1834, descr., iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 89, nom.; New Fl. N. Am. 4:88. 1836 [1838], descr.=*Polygala* Linn.
alba Raf. New Fl. N. Am. 4:88. 1836 [1838], descr. Texas=? P. *alba* Nutt.
 †*carnea* Raf. Herb. Raf. 79. 1833, nom. (*Polygala pubescens* sensu Ell.); Act. Soc. Linn. Bordeaux 6:264. 1834, nom. (*Polygala pubescens* auct.), iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 89, nom.; New Fl. N. Am. 4:88. 1836 [1838], descr. Southeastern United States=? *Polygala grandiflora* Walt. (*Asemeia grandiflora* Small).
leptopsis Raf. New Fl. N. Am. 4:88. 1836 [1838], nom. alt. *Asemeia alba* Raf. Texas=? P. *alba* Nutt.
 †*rosea* Raf. Herb. Raf. 79. 1833, nom. (*Polygala pubescens* sensu Ell.); Act. Soc. Linn. Bordeaux 6:264. 1834, nom. (*Polygala pubescens* auct.), iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 89, nom.; New Fl. N. Am. 4:88. 1836 [1838], descr. (*Polygala pubescens* Muhl.; P. *viridescens* Walt.). Carolina and Florida=P. *grandiflora* Walt.
 †**CORYMBULA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, descr., iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 89, nom.; New Fl. N. Am. 4:88. 1836 [1838], descr.=*Polygala* Linn.
 ***IRIDISPERMA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, nom., iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, nota=*Polygala* Linn. (Type *Polygala paucifolia* Willd.).
 ***LEPTROCHIA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, descr., iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, nom.=*Polygala* Linn.
PILOSTACHYS Raf. ex Jacks*. Ind. Kew. 2:526. 1894, nom.=*Pilostaxis* Raf.=*Polygala* Linn.
hyemalis Raf. ex Jacks*. l.c.=*Pilostaxis hyemalis* Raf.=*Polygala hyemalis* Raf. Florida, Georgia=seq.
nana Raf. ex Jacks*. l.c.=*Pilostaxis nana* Raf.=*Polygala nana* DC. Florida.
 ***PILOSTAXIS** Raf. New Fl. N. Am. 4:89, 111. 1836 [1838], nom.; op. cit. 87, descr. ut *Pilostaxis* Raf.=*Polygala* Linn.
 **hyemalis* Raf. op. cit. 87, nom. alt. *Polygala hyemalis* Raf. Florida, Georgia=*Polygala nana* (Michx.) DC.
 **nana* Raf. l.c., nom. alt. *Polygala nana* Raf. Florida=*Polygala nana* (Michx.) DC.
PLOSTAXIS Raf. New Fl. N. Am. 4:87. 1836 [1838], descr.=*Polygala* Linn.
lutea Raf. ex Jacks*. Ind. Kew. 2:568. 1894 (*Polygala lutea* Linn.). Eastern North America.
POLYGALA Linn.
 **flava* Raf. Life of Travels 26. 1836, nom. Italy.
 **heterophylla* Raf. Herb. Raf. 53. 1833, nom. Hab.?
hyemalis Raf. New Fl. N. Am. 4:89. 1836 [1838], descr. Florida, Georgia=P. *nana* (Michx.) DC.
jamesi Raf. Atl. Jour. 1:146. 1832, nom. (*Polygala* sp. Torr. Ann. Lyc. Nat. Hist. N. Y. 2:168. 1827, descr.). Rocky Mountains or western plains.
lutea Linn. var. *paucifolia* Raf. New Fl. N. Am. 4:90. 1836 [1838], descr. North America=? P. *nana* (Michx.) DC.
missurica Raf. New Fl. N. Am. 4:89. 1836 [1838], descr. Illinois, Missouri=P. *cruciata* Linn.
 **nana* Raf. op. cit. 89, descr. Florida=*Polygala nana* (Michx.) DC. (1824).
paucifolia Willd.; Raf. Med. Fl. 2:63. f. 75. 1830, descr. Eastern North America.
 var. *albiflora* Raf. op. cit. 64, nom.
apogonia Raf. l.c., nom. subnud. (*Polygala uniflora* Michx.?).
heterantha Raf. l.c., nom. subnud.
procumbens Raf. l.c., nom.
quadriflora Raf. l.c., nom.
rugosa Raf. New Fl. N. Am. 4:89. 1836 [1838], descr. Lake Michigan=? P. *polygama* Walt.

POLYGALA (*continued*).

- spathulata* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.* Pennsylvania.
- PSYCHANTHUS** Raf. Specch. Sci. 1:116. 1814, *descr.*; New Fl. N. Am. 4:87. 1836 [1838], *nom.*; Aut. Bot. 6. 1840, *nom.* (*Polygala myrtifolia* Linn.)=*Psychanthus* Spach (1839)=*Polygala* Linn.
- **myrtifolius* Raf. Aut. Bot. 6. 1840, *nom.* (*Polygala myrtifolia* Linn.). South Africa.
- ***PYLOSTACHYA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, *descr.*, *iter.* Merr. Proc. Am. Philos. Soc. 86:87. 1942, *op. cit.* 90, *nom.*, *nota* (Type *Polygala lutea* Linn.)=*Polygala* Linn.
- ***SENEGARIA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, *descr.*, *iter.* Merr. Proc. Am. Philos. Soc. 86:87. 1942, *op. cit.* 90, *nom.* [*Polygala senega* Linn.]=*Polygala* Linn.
- SEXILIA** Raf. New Fl. N. Am. 4:87. 1836 [1838], *descr.*=*Polygala* Linn.
- missurica* Raf. ex Jacks*. Ind. Kew. 2:894. 1895 (*Polygala missurica* Raf.). Missouri=*Polygala cruciata* Linn.
- verticillata* Raf. ex Jacks*. l.c. (*Polygala verticillata* Linn.). Eastern North America.
- TRICLISPERMA** Raf. Specch. Sci. 1:117. 1814, *descr.*; Princ. Somiol. 26. 1814, *nom.*; Anal. Nat. Tabl. Univ. 187. 1815, *nom.*; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*, *nota* (*Polygala paucifolia* Willd.); *op. cit.* 4:194. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.*, *nota*; New Fl. N. Am. 4:87. 1836 [1838], *nom.*; Good Book 40. 1840, *nom.*=*Polygala* Linn.
- grandiflora* Raf. Specch. Sci. l.c., *descr.* (*Polygala paucifolia* Willd.); Med. Fl. 2:63. 1830, *nom.*, *nota* in syn. sub *Polygala paucifolia* Willd.). Eastern United States=*Polygala paucifolia* Willd.
- ZOROXUS** Raf. New Fl. N. Am. 4:88. 1836 [1838], *gen. vel subgen.*, *nom. nov.* *Chamaebuxus* Tourn.=*Polygala* Linn.

DICHAPETALACEAE

- ***LEUCIPUS** Raf. Princ. Somiol. 25. 1814, *nom. nov.* *Leucosia* Thouars; Fl. Tellur. 1:83. 1836 [1837], *nom.* (*Leucosia* Thouars)=*Dichapetalum* Thouars (1806).

EUPHORBACEAE**ACALYPHA** Linn.

- brevipes* Raf. New Fl. N. Am. 1:44. 1836, *descr.* New Jersey to Kentucky and Alabama=*A. virginica* Linn.
- var. *linearis* Raf. l.c., *descr.*
- pubescens* Raf. l.c., *descr.* (*Acalypha virginica* sensu Michx.).
- crenulata* Raf. l.c., *descr.*, *nom. nov. provis.* *A. virginica* Linn. New England to Carolina=*Acalypha virginica* Linn.
- digyneia* Raf. Fl. Ludovic. 112. 1817, *descr.* (*Acalypha* 2, Rob. Voy. Louis. 3:516. 1807); New Fl. N. Am. 1:45. 1836, *descr.* Louisiana.
- divaricata* Raf. New Fl. N. Am. 1:44. 1836, *descr.* Virginia, Kentucky.
- echinata* Raf. New Fl. N. Am. 1:45. 1836, *nom. nov. provis.* *Acalypha caroliniana* Walt. Carolina, Florida=*Acalypha virginica* Linn.
- fruticulosa* Raf. Fl. Ludovic. 112. 1817, *descr.* (*Acalypha monoique* Rob. Voy. Louis. 3:516. 1807); New Fl. N. Am. 1:46. 1836, *descr.* Louisiana.
- jamaicensis* Raf. *op. cit.* 46, *descr.* (*Acalypha virginica* Linn., *pro parte*). Jamaica, ? Florida.
- rhomboidea* Raf. *op. cit.* 45, *descr.* Pennsylvania to Ohio=*A. virginica* Linn.; see Weatherby, *Rhodora* 42:96. 1940.
- **urticifolia* Raf. Herb. Raf. 67. 1833, *nom.*; New Fl. N. Am. l.c., *descr.*, *non* Poir. Western Kentucky and Tennessee.
- zeylanica* Raf. New Fl. N. Am. 1:46. 1836, *nom.* [*Acalypha virginica* Linn., *pro parte*, *quoad* Fl. Zeyl. no. 342, Plukenet, Phytogr. 2:248. t. 99. f. 4. 1720, *sphalm.* Linn. "Burm. zeyl. 248. t. 99. f. 4."]. Ceylon=*Acalypha lanceolata* Willd.
- ADENORIMA** Raf. Fl. Tellur. 4:112. 1836 [1838], *descr.*=*Euphorbia* Linn.
- punicea* Raf. l.c., *descr.* (*Euphorbia punicea* Sw.; Ker-Gawl. Bot. Reg. 3: t. 190. 1817). West Indies.
- AGALOTIA** Raf. Fl. Tellur. 4:116. 1836 [1838], *descr.*=*Tithymalopsis* Klotzsch & Garcke (1859)=*Euphorbia* Linn.

- angustifolia* Raf. ex Jacks*. Ind. Kew. 1:53. 1893 (*Euphorbia angustifolia* Sweet.). Europe.
- **ciliata* Raf. Aut. Bot. 94. 1840. Alabama to Kentucky.
- var. *floridana* Raf. l.c., *descr.* Florida.
- monanthes Raf. *op. cit.* 95, *descr.* Alabama.
- †*corollata* Raf. l.c., *nom.* (*Euphorbia corollata* Linn.). Canada to Louisiana. (*Tithymalopsis corollata* Klotzsch & Garcke).
- var. *angustifolia* Raf. l.c., *nom.*
- cuneifolia* Raf. l.c., *nom.*
- nudiflora* Raf. l.c., *nom.*
- pauciflora* Raf. l.c., *nom.*
- uniflora* Raf. l.c., *nom.*
- graminifolia* Raf. ex Jacks*. Ind. Kew. 1:53. 1893 (*Euphorbia graminifolia* Michx.). North America.
- **linearis* Raf. Aut. Bot. 94. 1840, *descr.* Alabama, Tennessee.
- **longifolia* Raf. l.c., *descr.* (*Euphorbia graminifolia* Michx.?). Kentucky, Carolina.
- var. *linearis* Raf. l.c., *nom.*
- major Raf. l.c., *nom.*
- **polyscadia* Raf. l.c., *descr.* Alleghany Mountains.
- **purpurea* Raf. *op. cit.* 94, *descr.* Alleghany Mountains of Pennsylvania=*Euphorbia purpurea* (Raf.) Fernald (*E. nemoralis* Darlington; *E. darlingtonii* A. Gray).
- **retusa* Raf. *op. cit.* 95, *descr.* Alleghany Mountains.
- var. *multiflora* Raf. l.c., *nom.*
- pauciflora* Raf. l.c., *nom.*
- **tenuifolia* Raf. l.c., *descr.* Florida.
- AKLEMA** Raf. Fl. Tellur. 4:114. 1836 [1838], *descr.*=*Euphorbia* Linn.
- nudiflora* Raf. l.c., *descr.* (*Euphorbia nudiflora* Jacq. Ic. Pl. Rar. 3: t. 479. 1786-93). Jamaica.
- ALDINIA** Raf. Aut. Bot. 50. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*, *non* Scop. (1777)=*Croton* Linn.
- glechomoides* Raf. l.c., *descr.*; Pennell, l.c., *nom.* Cuba=? *Croton betulinus* Vahl.
- ALLOBIA** Raf. Fl. Tellur. 4:116. 1836 [1838], *descr.*=*Euphorbia* Linn.
- portlandica* Raf. l.c., *nom.* (*Euphorbia portlandica* Linn.). Europe.
- ALLOSANDRA** Raf. Aut. Bot. 51. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*=*Tragia* Linn.
- **lanceolata* Raf. l.c., *descr.* (*Tragia innocua* Walt.). Alabama, Florida=*Tragia urens* Linn.
- **linearis* Raf. l.c., *nom.* sub *Allosandra verbenifolia* Raf. An *Tragia linearifolia* Ell. ?
- **macrocarpa* Raf. *op. cit.* 52, *descr.* (*Tragia macrocarpa* Willd.). Kentucky, Tennessee.
- verbenifolia* Raf. *op. cit.* 51, *descr.* (*Tragia urens* Linn., *var.*; Pennell, l.c., *nom.* Florida=*Tragia urens* Linn.
- #**ALSKEBRA** Raf. Fl. Tellur. 4:112. 1836 [1838], *descr.*, *subgen.* *Euphorbia* Linn.
- #**ANACANTHA** Raf. Fl. Tellur. 4:112. 1836 [1838], *nom.*, *subgen.* *Dactylanthus* Haw.=*Euphorbia* Linn.
- ANISEPTA** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Neogen 1. 1825, *nom. alt.* *Heptallon* Raf.=*Croton* Linn.
- graveolens* Raf. First Cat. l.c., *nom.* Kentucky.
- APLARINA** Raf. New Fl. N. Am. 4:99. 1836 [1838], *descr.*; Aut. Bot. 97, 138. 1840, *nom.* sub *Xamesike* Raf.=*Euphorbia* Linn.
- microphyla* Raf. New Fl. N. Am. 4:100. 1836 [1838], *descr.* Louisiana, Texas=*Xamesike microphyla* Raf.
- prostrata* Raf. *op. cit.* 99, *descr.* Pennsylvania=*Xamesike prostrata* Raf.
- BANALIA** Raf. Aut. Bot. 50. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.* Ex *descr.*=*Croton* Linn.
- muricata* Raf. l.c., *descr.*; Pennell, l.c., *nom.* Florida.
- BIVONEA** Raf. Specch. Sci. 1:156. 1814, *descr.*; Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.* (*Jatropha stimulosa* Michx.); Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*; Neogen. 3. 1825, *nom.* in syn. sub *Mesanandria* Raf.=*Jatropha* Linn. (*Cnidoscolus* Pohl, 1827).
- stimulosa* Raf. Specch. Sci. 1:156. 1814, *descr.* (*Jatropha stimulosa* Michx.; *Jatropha urens* sensu Walt.); Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.* (*Jatropha stimulosa* Michx.). Virginia to Florida and Louisiana=*Jatropha urens* Linn. *var. stimulosa* (Michx.) Muell.-Arg.
- ***BIVONIA** Raf. Fl. Tellur. 1:16. 1836 [1838], *nom.*, *non* Spreng., 1821=*praece.*

- CASCARILLA** Adans.; Raf. Sylva Tellur. 62. 1838, *descr.* = *Croton* Linn.
aromatica Raf. l.c., *nom.* (*Croton aromaticus* Linn.). India.
discolor Raf. l.c., *nom.* (*Croton discolor* Willd.). Santo Domingo.
linearis Raf. l.c., *nom.* (*Croton linearis* Jacq.). West Indies.
officialis Raf. l.c., *nom.* (*Croton cascarrilla* Linn.). West Indies.
- ***CHAMYSYKE** Raf. New Fl. N. Am. 4:44. 1836 [1838], *nom.* sub *Plagidia rufa* Raf. = *Chamaesyce* S. F. Gray (1821) = *Euphorbia* Linn.
- CHROZOPHORA** Neck. (1790), *nom. conserv.* (*Tournefortia* Adans., 1763; *Tournefortia* Scop., 1777).
 **tinctoria* Raf. Chloris Aetn. 4. 1815, *nom.* (*Croton tinctorius* Linn.). Sicily = *Chrozophora tinctoria* (Linn.) A. Juss. (1824).
- ***CODEBO** Raf. Sylva Tellur. 64. 1838, *nom.* sub *Chrozophylla* Raf. = *Codiaeum* Juss. (1824), *nom. conserv.* (*Phyllaurea* Lour., 1790).
- ***CODIUM** Raf. Sylva Tellur. 64. 1838, *nom.* sub *Chrozophylla* Raf. = *Codiaeum* Juss. (1824), *nom. conserv.* (*Phyllaurea* Lour., 1790).
- ***CONAMIA** Raf. Sylva Tellur. 92. 1838, *descr.* (*Conami* Aubl.) = *Phyllanthus* Linn.
 **brasiliensis* Raf. l.c., *descr.* (*Conami brasiliensis* Aubl.). Guiana, Brazil = *Phyllanthus conami* Sw.
- CROZOPHORA** Juss. (1824) = *Chrozophora* Neck. (1790).
 **plicata* Raf. Sylva Tellur. 66. 1838, *nom.*; Aut. Bot. 51. 1840, *nom.* (*Croton plicatus* Vahl). Mediterranean region to India = *Chrozophora plicata* (Vahl) Juss.
 **tinctoria* Raf. l.c., *nom.* (*Croton tinctorius* Linn.). Mediterranean region to India = *Chrozophora tinctoria* (Linn.) Juss.
- CROZOPHYLLA** Raf. Sylva Tellur. 64. 1838, *descr.* = *Codiaeum* Juss. (1824), *nom. conserv.* (*Phyllaurea* Lour., 1790).
angustifolia Raf. l.c., *descr.* [Indo-Malaysia] = *Codiaeum variegatum* (Linn.) Blume, f. *taeniosum* Muell.-Arg.
elliptica Raf. l.c., *descr.* [Tropical Asia] = *Codiaeum variegatum* (Linn.) Blume.
picta Raf. l.c., *descr.* (*Codiaeum pictum* Hook. Bot. Mag. 58: t. 3051. 1831; *Croton pictus* Lodd. Bot. Cab. 8: t. 870. 1824). India = *Codiaeum variegatum* (Linn.) Blume.
variegata Raf. l.c., *descr.* (*Croton variegatum* Linn.). India = *Codiaeum variegatum* (Linn.) Blume.
- CUPAMENIS** Raf. Sylva Tellur. 67. 1838, *descr.* = *Acalypha* Linn.
chamaedrifolia Raf. ex Jacks*. Ind. Kew. 1:667. 1893 (*Croton chamaedryfolius* Lam.). West Indies = *Acalypha chamaedrifolia* (Lam.) Muell.-Arg.
indica Raf. ex Jacks*. l.c. (*Acalypha indica* Linn.). India.
reptans Raf. ex Jacks*. l.c. (*Acalypha reptans* Sw.). West Indies = *A. chamaedrifolia* (Lam.) Muell.-Arg.
- CYATHOPHORA** Raf. Fl. Tellur. 4:117. 1836 [1838], *descr.* = *Euphorbia* Linn.
ciliata Raf. l.c., *descr.* (*Euphorbia heterophylla* sensu Jacq. [l.c. Pl. Rar. 3: t. 480. 1786-93]; *E. cyathophora* sensu Ker-Gawl. Bot. Reg. 9: t. 765. 1824) = *E. heterophylla* Linn.
heterophylla Raf. l.c., *descr.* (*Euphorbia heterophylla* Linn.). South America = *E. heterophylla* Linn.
picta Raf. l.c., *descr.* (*Euphorbia cyathophora* sensu Scop. Del. Fl. Faun. Insub. 3: t. 3. 1788); Aut. Bot. 96. 1840, *nom.* Florida, and cultivated in gardens = *E. heterophylla* Linn.
- DACTYLANTHES** Haw. (1812) = *Euphorbia* Linn.
medusa Raf. ex Jacks*. Ind. Kew. 1:708. 1893 (*Euphorbia medusae* Thunb.). S. Africa.
- DECARINIUM** Raf. Neogen. 1. 1825, *descr.*; Sylva Tellur. 65. 1838, *descr.* = *Croton* Linn.
glandulosum Raf. Sylva Tellur. l.c., *nom.* (*Croton glandulosus* Linn.); Aut. Bot. 48. 1840, *descr.* (*Croton glandulosus* Linn.). Carolina and Florida.
latifolium Raf. Aut. Bot. 49. 1840, *descr.* (*Croton glandulosus* sensu Nutt.). Cuba, Arkansas = *Croton glandulosus* Linn.
- DEMATERA** Raf. Aut. Bot. 91, *nom.*, 96, *descr.* 1840; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.* = *Euphorbia* Linn.
sericea Raf. op. cit. 96, *descr.* (*Euphorbia villosa* Sieber in herb., non Waldst. & Kit.); Pennell l.c., *nom.* Palestine.
- DESMONEMA** Raf. Atl. Jour. 1:177. 1833, *descr.*; Herb. Raf. 23. 1833, *descr.*; Fl. Tellur. 4:113. 1836 [1838], *descr.* = *Euphorbia* Linn.
- hirta* Raf. Atl. Jour. 1:178. 1833, *descr.*; Herb. Raf. 24. 1833, *descr.*; Fl. Tellur. l.c., *descr.*; Aut. Bot. 96. 1840, *nom.* Western Kentucky to Texas.
- DISCOPLIS** Raf. New Fl. N. Am. 4:9. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.* Ex *descr.* = *Mercurialis* Linn.
serrata Raf. op. cit. 10, *descr.*; Aut. Bot. 16. 1840, *nom.* Southern Florida and Cuba = *Mercurialis* Linn.
- DITRISYNIA** Raf. Sylva Tellur. 64. 1838, *descr.* = *Ditrysinia* Raf. = *Sebastiania* Spreng. (1821).
ligustrina Raf. l.c., *descr.* = *Ditrysinia ligustrina* Raf. = *Sebastiania ligustrina* (Michx.) Muell.-Arg.
- DITRYSINIA** Raf. Neogen. 2. 1825, *descr.* = *Sebastiania* Spreng. (1821).
ligustrina Raf. l.c., *descr.* (*Stillingia ligustrina* Michx.). Southeastern United States = *Sebastiania ligustrina* (Michx.) Muell.-Arg.
sylvatica Raf. ex Jacks*. Ind. Kew. 1:783. 1894 (*Stillingia sylvatica* Linn.). Southeastern United States = *Stillingia sylvatica* Linn.
- DITRITRA** Raf. Sylva Tellur. 115. 1818, *descr.*; Aut. Bot. 138. 1840, *nom.* sub *Endosila* Raf. = *Euphorbia* Linn.
hirta Raf. Sylva Tellur. l.c., *descr.* (*Euphorbia hirta* sensu Sw.). Jamaica.
obliqua Raf. l.c., *descr.* (*Euphorbia hypericifolia* sensu Sw.). Jamaica.
rotundifolia Raf. l.c., *descr.* (*Euphorbia chamaesyce* Sw.). Jamaica.
- DREPADIENIUM** Raf. Neogen. 2. 1825, *descr.*; Sylva Tellur. 64. 1838, *descr.* = *Croton* Linn.
 **argyranthes* Raf. Aut. Bot. 48. 1840, *descr.* (*Croton argyranthemus* Michx.). Florida, Cuba.
dichotomum Raf. Sylva Tellur. 65. 1838, *nom.* (*Croton maritimus* Walt. var. *monantha* [*monanthogynus* Pursh]). Southeastern United States = *Croton punctatus* Jacq.
 †*maritimum* Raf. l.c., *nom.* (*Croton maritimus* Walt.); Aut. Bot. 48. 1840, *descr.*, *nota.* Carolina to Florida = *Croton punctatus* Jacq.
- EMBLICA** Gaertn. = *Phyllanthus* Linn.
annua Raf. Sylva Tellur. 91. 1838, *nom.* (*Phyllanthus bacciformis* Linn.). India = *Agyneia bacciformis* (Linn.) A. Juss.
arborea Raf. l.c., *nom.* (*Phyllanthus emblica* Linn.). India.
 **racemosa* Raf. l.c., *nom.* [*Phyllanthus racemosus* Linn. f.]. India = *Emblica racemosa* Spreng. (1826) = *Agyneia bacciformis* (Linn.) A. Juss.
- ENDOSILA** Raf. Sylva Tellur. 114. 1838, *descr.*; Aut. Bot. 138. 1840, *nom.* = *Euphorbia* Linn.
myrsinites Raf. Sylva Tellur. 114. 1838, *descr.* ("Euphorbia do Sw." *sphalm.*, prob. *E. myrtifolia* Linn.). West Indies.
- EPISTEIRA** Raf. Sylva Tellur. 20. 1838, *descr.* = *Glochidion* J. R. & G. Forst. (1776).
coccinea Raf. l.c., *descr.* (*Agyneia coccinea* Buch.-Ham.). Burma = *Glochidion coccineum* (Buch.-Ham.) Muell.-Arg.
- ESULA** Haw. = *Euphorbia* Linn.
 **adscendens* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
 **diversifolia* Raf. Fl. Tellur. 4:116. 1836 [1838], *nom.* (*Euphorbia diversifolia* Poir.). Mediterranean region.
 **esula* Raf. l.c., *nom.* (*Euphorbia esula* Linn.). Europe.
 **lucida* Raf. l.c., *nom.* (*Euphorbia lucida* Waldst. & Kit.). Europe.
 **retusa* Raf. l.c., *nom.* (*Euphorbia retusa* Forsk.). Egypt (*E. cornuta* Pers.).
- #**ETORADIS** Raf. Aut. Bot. 52. 1840, *descr.*, sub *Allosandra macrocarpa* Raf. subgen. *provis.* *Allosandra* Raf. = *Tragia* Linn.
- EUPHORBIA** Linn.
 **coccinea* Raf. Atl. Jour. 1:182. 1833, *nom.* alt. *Pleuradena coccinea* Raf. Mexico = *Euphorbia pulcherrima* Willd.
corollata Linn. Eastern North America.
 var. *linearis* Raf. Med. Fl. 1:183. 1828, *descr.*, iter. Man. Med. Bot. 183. 1841.
pauciflora Raf. op. cit. 184, *descr.*
pubescens Raf. op. cit. 183, *descr.*
rosea Raf. op. cit. 184, *descr.*
 †*echinocarpa* Sieber ex Raf. Aut. Bot. 93. 1840, *nom.* sub *Keraselma echinocarpa* Raf.; Boiss. in DC. Prodr. 15(2): 119. 1862, *nom.* in syn. Greece = *E. cybirensis* Boiss. var. *dehiscens* Boiss.
 **fusca* Raf. Fl. Tellur. 4:116. 1836 [1838], *nom. nov.* *E. pithyusa* Linn. Mediterranean region.

EUPHORBIA (*continued*).

- hypericifolia* Linn. Eastern North America.
 var. *maculata* Raf. Med. Fl. 1:183. 1828, *descr.*, iter. Man. Med. Bot. 183. 1841.
multiflora Raf. Il.cc., *nom.*
prostrata Raf. Il.cc., *nom.*
simplex Raf. Il.cc., *nom.*
 **ipecacuana* Raf. Med. Fl. 1:183. 1828, *nom.*, iter. Man. Med. Bot. 183. 1841. North America=E. *ipecacuanhae* Linn.
 var. *cespitosa* Raf. Il.cc., *nom.*
lanceolata Raf. Il.cc., *nom.*
portulacoides Raf. Il.cc., *descr.*
prostrata Raf. Il.cc., *nom.*
rotundifolia Raf. Il.cc., *nom.*
rubra Raf. Il.cc., *descr.*
uniflora Raf. Il.cc., *descr.* (*E. uniflora* Raf.).
 †*leucoloma* Raf. Med. Fl. 2:220. 1830, *nom.*, *nota* (*E. marginata* Pursh 1814, non H.B.K., 1822); Atl. Jour. 1:177. 1833, *descr.*; Herb. Raf. 22. 1833, *descr.* Arkansas, Texas=E. *marginata* Pursh.
 var. *cuneifolia* Raf. Atl. Jour. et Herb. Raf. l.c., *nom.*
elator Raf. Il.cc., *nom.*
simplex Raf. Il.cc., *nom.*
 **littoralis* Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *descr.* New York (Hudson River), non H.B.K.=E. *depressa* Torr.=E. *supina* Raf.
ludoviciana Raf. Fl. Ludovic. 111. 1817, *descr.* (*Euphorbe couchée ou tithymale dichotome* Rob. Voy. Louis. 3:515. 1807). Louisiana.
 **maritima* Raf. Fl. Tellur. 4:115. 1836 [1838], *nom. nov.* *Euphorbia paralias* Linn. Europe.
 **missurica* Raf. Atl. Jour. 1:146. 1832, *nom.* (*E. portulacoides* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:244. 1827). Missouri and Arkansas Rivers (*E. zygophylloides* Boiss., 1860); see Wheeler, Rhodora 43:132. 1941.
missourica Raf. ex Jacks*. Ind. Kew 1:927. 1893=praec.
 **montana* Raf. Am. Monthly Mag. Crit. Rev. 1:440. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.* Sicily.
 **peplodes* Raf. Western Minerva 59. 1821, *nom. nov.* *E. peplus* sensu Pursh, iter. Fox, Science II. 12:214. 1900; Med. Fl. 1:187. 1828, *nom.* (*E. peplus* sensu auct. Am.), iter. Man. Med. Bot. 187. 1841 (=Keraselma *reniformis* Raf. fide Raf. Aut. Bot. 93. 1840). Eastern United States=E. *Euphorbia peplus* Linn.
 **poinseti* Raf. Atl. Jour. 1:182. 1833, *nom. alt.* *Pleuradena coccinea* Raf. Mexico=Euphorbia *pulcherrima* Willd. (*Poinsettia pulcherrima* Grah.).
 **poinsetiana* Raf. Fl. Tellur. 4:113. 1836 [1838], *nom.* in syn. sub *Pleuradena coccinea* Raf. Mexico=Euphorbia *pulcherrima* Willd. (*Poinsettia pulcherrima* Grah.).
 **serotina* Raf. op. cit. 115, *nom. nov.* *Euphorbia characias* Linn. Mediterranean region.
 **shortiana* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
 †*supina* Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *descr.*; Fl. Ludovic. 170. 1817, *nom.*; Aut. Bot. 97. 1840, *nom.* sub *Xamesike* Raf.; Boiss. ex DC. Prodr. 15(2): 47. 1862, *nom.* in syn. Long Island and New Jersey (Sandy Hook); see Wheeler, Contr. Gray Herb. 127:7. 1939, Fosberg, Rhodora 48:200. 1946; Croizat, Bull. Torr. Bot. Club 74:152. 1947; 75:188. 1948; Fosberg, op. cit. 74:332. 1947.
uniflora Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. (Paris) 1:228. 1809, *descr.*; Med. Fl. 1:183. 1830, *nom.* Maryland.
 **vermiculata* Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *nom.*; op. cit. 2:206. 1818, *descr.*; Fl. Ludovic. 171. 1817, *nom.* New York (Glens Falls) (*E. hirsuta* Wiegand; *E. rafinesquii* Greene).
 ***FORFASADIS** Raf. Aut. Bot. 90. 1840, *nom.*, *sphalm.*=Torfasadis Raf.=Euphorbia Linn.
 †**GEMINARIA** Raf. Western Minerva 42. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900 (Type *Phyllanthus carolinensis* Walt.); First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* (*Phyllanthus obovatus* Muhl.)=Synexemia Raf. (1825)=Phyllanthus Linn.
obovata Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* (*Phyllanthus obovatus* Muhl.). Kentucky=Phyllanthus *carolinensis* Walt.
GENESIPHYLLA Raf. Sylva Tellur. 92. 1838, *descr.*=Genesiphylla L'Hér. (1788)=Phyllanthus Linn.

- **speciosa* Raf. l.c., *nom.* ("apecosa") (*Phyllanthus speciosus* Jacq.). Jamaica.
GENESIPHYLLA L'Hér.=Phyllanthus Linn.
speciosa Raf. ex Jacks*. Ind. Kew. 1:1008. 1893 (*Genesiphylla speciosa* Raf.). Jamaica=Phyllanthus *speciosus* Jacq.
HALECUS Raf. Sylva Tellur. 62. 1838, *descr.*=Croton Linn.
mauritanus Raf. l.c., *nom.* (*Croton mauritanus* Lam.). Mauritius.
verus Raf. l.c., *nom.* [*Croton tiglium* Linn.?]. Indo-Malaysia.
HEPTALLON Raf. Neogen. 1. 1825, *descr.*; Sylva Tellur. 65. 1838, *descr.*=Croton Linn.
aromaticum Raf. Il.cc., *descr.* (*Croton ellipticus* sensu Ell.; *Crotonopsis elliptica* Willd.). Carolina=Croton *elliottii* Chapm., et, quoad syn. Willd., *Crotonopsis elliptica* Willd.
capitatum Raf. Sylva Tellur. 65. 1838, *descr.* (*Croton capitatus* Michx.). Illinois, Missouri.
ellipticum Raf. l.c., *descr.* (*Croton ellipticus* Nutt.). Louisiana=C. *monanthogynus* Michx.
 **fruticosum* Raf. Aut. Bot. 48. 1840, *descr.* Arkansas.
graveolens Raf. Neogen. 1. 1825, *descr.*; Sylva Tellur. 65. 1838, *descr.*; Med. Fl. 2:227. 1830, *nom.*; Aut. Bot. 47. 1840, *descr.* Kentucky, Tennessee, Illinois.
 **lanceolatum* Raf. Aut. Bot. 48. 1840, *descr.* Arkansas.
 **simplex* Raf. op. cit. 47, *descr.* Florida.
 ***HEPTANIS** Raf. Neogen. 1. 1825, *nom. alt.* *Heptallon* Raf.; Aut. Bot. 47. 1840, *nom.*=Croton Linn.
 **elliptica* Raf. Aut. Bot. 47. 1840, *nom.* sub *Leptemon ellipticum* Raf. (*Croton ellipticus* Nutt.). Southeastern United States=Croton *monanthogynus* Michx.
HEXADENA Raf. Sylva Tellur. 92. 1838, *descr.*=Phyllanthus Linn.
angustifolia Raf. l.c., *nom.* (*Phyllanthus angustifolius* Sw.). West Indies.
IATROPHA Stokes=Jatropha Linn.
 **stimulosa* Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.* [*Jatropha stimulosa* Michx.]. Southeastern United States=Bivonea *stimulosa* (Michx.) Raf.=Jatropha *urens* Linn. var. *stimulosa* (Michx.) Muell.-Arg.
JANIPHA H.B.K.=Manihot Adans. (1763).
 **stimulosa* Raf. Med. Fl. 2:233. 1830, *nom.*, *nota* [*Jatropha stimulosa* Michx.]. Virginia to Florida=Bivonea *stimulosa* (Michx.) Raf.=Jatropha *urens* Linn. var. *stimulosa* (Michx.) Muell.-Arg.
KANOPIKON Raf. Fl. Tellur. 4:114. 1836 [1838], *descr.*=Euphorbia Linn.
atropurpureum Raf. l.c., *descr.* (*Euphorbia atropurpurea* Brouss.; Hook. Bot. Mag. 61: t. 3321. 1834). Tenerife.
 #**KARUITES** Raf. Fl. Tellur. 4:116. 1836 [1838], *descr.* subgen. *Keraselma* Neck.=Euphorbia Linn.
KERASELMA Neck.=Euphorbia Linn.
 **ciliata* Raf. Aut. Bot. 94. 1840, *descr.* (*Euphorbia pilosa* auct. Am.). Missouri.
corifolia Raf. Fl. Tellur. 4:116. 1836 [1838], *nom.* (*Euphorbia corifolia* Lam.). South Africa.
cyparissias Raf. l.c., *nom.*; Aut. Bot. 93. 1840, *nom.* (*Euphorbia cyparissias* Linn.). Europe.
diversifolia Raf. l.c., *nom.* (*Euphorbia diversifolia* Poir.). Mediterranean region.
 **echinocarpa* Raf. Aut. Bot. 93. 1840, *descr.* (*Euphorbia echinocarpa* Sieber). Crete=Euphorbia *cybirensis* Boiss.
esula Raf. Fl. Tellur. 4:116. 1836 [1838], *nom.* (*Euphorbia esula* Linn.). Europe.
 var. *pauciflora* Raf. Aut. Bot. 93. 1840, *descr.* Bavaria.
exigua Raf. Fl. Tellur. 4:116. 1836 [1838], *nom.*; Aut. Bot. 92. 1840, *descr.* (*Euphorbia exigua* Linn.). Europe.
falcata Raf. Fl. Tellur. 4:116. 1836 [1838], *nom.* (*Euphorbia falcata* Linn.). Mediterranean region.
genistoides Raf. l.c., *nom.* (*Euphorbia genistoides* Berg.). South Africa.
 **lathyris* Raf. l.c., *nom.*; Aut. Bot. 93. 1840, *nom.* (*Euphorbia lathyris* Linn.). Europe.
lathyroides Raf. ex Jacks*. Ind. Kew. 2:5. 1894, *sphalm.*=praec.
leptophylla Raf. Fl. Tellur. l.c., *nom.* (*Euphorbia leptophylla* Vill.). Europe.
lucida Raf. l.c., *nom.* (*Euphorbia lucida* Waldst. & Kit.). Europe.
oleracea Raf. l.c., *nom. alt.* *Keraselma peplus* Raf. [*Euphorbia oleracea* Pers.]. Europe=Euphorbia *peplus* Linn.
pallida Raf. l.c., *nom.* (*Euphorbia pallida* Willd.). Europe.

- peplus Raf. l.c., nom.; Aut. Bot. 93. 1840, nom. (*Euphorbia peplus* Linn.). Europe.
- provincialis Raf. Fl. Tellur. 4:116. 1836 [1838], nom. (*Euphorbia provincialis* Willd.). Europe.
- *pungens Raf. Aut. Bot. 93. 1840, descr. Palestine, Arabia.
- *reniformis Raf. l.c., descr. (*Euphorbia peploides* Raf.; *E. peplus* auct. Am.). Pennsylvania to Missouri=*Euphorbia peplus* Linn.
- var. *retusa* Raf. l.c., descr. Ohio.
- retusa* Raf. Fl. Tellur. 4:116. 1836 [1838], nom.; Aut. Bot. 92. 1840, descr. (*Euphorbia retusa* Bieb.). France, Spain.
- rubra* Raf. Fl. Tellur. l.c., nom. (*Euphorbia rubra* Cav.). Mediterranean region.
- segetalis* Raf. l.c., nom. (*Euphorbia segetalis* Linn.). Europe.
- seguieri* Raf. l.c., nom. (*Euphorbia seguierii* All.). Europe.
- **spatulata* Raf. Aut. Bot. 93. 1840, descr. Arkansas, Texas.
- squamosa* Raf. Fl. Tellur. 4:116. 1836 [1838], nom. (*Euphorbia squamosa* Willd.). Caucasus.
- sylvatica* Raf. l.c., nom. (*Euphorbia sylvatica* Linn.). Europe.
- **virgata* Raf. Aut. Bot. 93. 1840, descr. (*Euphorbia virgata* Waldenst. & Kit.). Hungary.
- KOBIOSIS Raf. Aut. Bot. 91, nom., 94, descr. 1840; Pennell, Bull. Torr. Bot. Club 48:94. 1921., nom.=*Euphorbia* Linn.
- mellifera* Raf. l.c., descr.; Pennell, l.c., nom. (*Euphorbia mellifera* Ait.). Madeira.
- KURKAS Adans. Fam. Pl. 549. 1763, in indice; Raf. Sylva Tellur. 62. 1838, descr.=*Croton* Linn.
- acuminatus* Raf. l.c., nom. (*Croton acuminatus* Lam.); Aut. Bot. 50. 1840, nom. Japan=*Mallotus japonicus* (Thunb.) Muell.-Arg.
- congestum* Raf. Sylva Tellur. l.c., nom. (*Croton congestus* Lour.). China=*Xylosma congesta* (Lour.) Merr.; see Merrill, Trans. Am. Philos. Soc. 24(2): 273. 1935. (Flacourtiaceae).
- laxiflorum* Raf. l.c., nom. (*Croton laxiflorus* Geisel., 1807). Indo-China=*Croton lasianthus* Pers.; see Merrill, Trans. Am. Philos. Soc. 24(2):235. 1935.
- populifolium* Raf. l.c., nom. (*Croton populifolius* Mill.). Tropical America.
- quadrissetosum* Raf. l.c., nom. (*Croton quadrissetosus* Lam.). Peru.
- tigilium* Raf. l.c., nom. (*Croton tigilium* Linn.). Indo-Malaysia.
- LACANTHIS Raf. Fl. Tellur. 2:94. 1836 [1837], descr.=*Euphorbia* Linn.
- splendens* Raf. l.c., descr. (*Euphorbia splendens* Bojer ex Hook. Bot. Mag. 56: t. 2902. 1829). Madagascar=*Euphorbia milii* Des Moul. (1826).
- LASCADIUM Raf. Fl. Ludovic. 114. 1817, descr. Am. Monthly Mag. Crit. Rev. 4:188. 1819, nom.; Desf. Ann. Sci. Nat. 1:167. 1821, descr.=*Croton* Linn.
- lanatum* Raf. Fl. Ludovic. l.c., descr. (*Atakaphace* Rob. Voy. Louis. 3:519. 1807). Louisiana.
- lanuginosum* Raf. ex Steud. Nomencl. ed. 2, 2:10. 1841, nom.=praec.
- LASIPANA Raf. Sylva Tellur. 21. 1838, descr.=*Mallotus Loureiro* (1790).
- tricuspis* Raf. op. cit. 22, descr. (*Echinus trisulcus* Lour.). Indo-China=*Mallotus paniculatus* (Lam.) Muell.-Arg.; see Merrill, Trans. Am. Philos. Soc. 24(2): 237. 1935.
- #LATHYRIS Raf. Fl. Tellur. 4:116. 1836 [1838], descr., subgen. *Keraselma* Raf. (Type *Euphorbia lathyrus* Linn.)=*Lathris* Trew, 1754 ut gen.=*Euphorbia* Linn.
- LEPADENA Raf. Fl. Tellur. 4:113. 1836 [1838], descr.; op. cit. 125, nom., nota; New Fl. N. Am. 4:99. 1836 [1838], nom.=*Dichrophyllum* Klotzsch & Garcke, (1859)=*Euphorbia* Linn.; see Nieuwl. Am. Midl. Nat. 2:300. 1912.
- leucoloma* Raf. op. cit. 114, descr. (*Euphorbia leucoloma* Raf.); op. cit. 125, nom., nota (*Euphorbia marginata* Pursh); Aut. Bot. 96. 1840, nom. (*Euphorbia marginata* Pursh). Arkansas, Missouri=*Lepadena marginata* (Pursh) Nieuwl.=*Euphorbia marginata* Pursh (1814).
- var. *cuneifolia* Raf. Fl. Tellur. l.c., nom.
- var. *elator* Raf. l.c., nom.
- var. *simplex* Raf. l.c., nom.
- LEPTEMON Raf. Med. Repos. II. 5:353. 1808, nom. nov. *Crotonopsis* Michx.; Jour. Bot. (Paris) 2:172. 1809, nom. (*Crotonopsis* Michx.); Am. Monthly Mag. Crit. Rev. 2:265. 1818, nom., nota (*Crotonopsis* Michx.); op. cit. 4:189, 195. 1819, nom. (*Crotonopsis* Michx.); Jour. Phys. Chim. Hist. Nat. 89:260. 1819, nom. (*Crotonopsis* Michx.); Sylva Tellur. 67. 1838, descr. (*Crotonopsis* Michx.)=*Crotonopsis* Michx. (1803).
- **ellipticum* Raf. Aut. Bot. 47. 1840, descr. (*Croton ellipticus* Nutt.; *Crotonopsis elliptica* Willd.; *Heptanis elliptica* Raf.). Kentucky, Tennessee, Missouri=*Crotonopsis elliptica* Willd.
- lineare* Raf. Sylva Tellur. 67. 1838, nom.; Aut. Bot. 46. 1840, nom. (*Crotonopsis linearis* Michx.). New Jersey to Florida.
- **ovalifolium* Raf. Aut. Bot. 46. 1840, descr. Florida=*Crotonopsis elliptica* Willd.
- **verrucosum* Raf. op. cit. 47, descr. (? *Croton ellipticus* sensu Ell.). Carolina to Arkansas=*Crotonopsis elliptica* Willd.
- LOMANTHES Raf. Sylva Tellur. 92. 1838, descr.=*Phyllanthus* Linn.
- latifolia* Raf. l.c., nom. (*Phyllanthus latifolius* Sw.; *Xylophylla latifolia* Linn.; *Genesphylla [asplenifolia]* L'Hérit.). Jamaica=*Phyllanthus latifolius* (Linn.) Sw.
- LOPHOBIOS Raf. Fl. Tellur. 4:116. 1836 [1838], descr.=*Euphorbia* Linn.
- cristata* Raf. l.c., nom. (*Euphorbia cristata* D. Dietr.). Asia Minor.
- terraccina* Raf. l.c., nom. (*Euphorbia terraccina* Linn.). Mediterranean region.
- LUNTIA Neck.=*Croton* Linn.
- sericea* Raf. Sylva Tellur. 62. 1838, nom. (*Croton sericeus* Lam.; *C. matourensis* Aubl.). Tropical America=*Croton matourensis* Aubl.
- *MASCALANTHUS Raf. Sylva Tellur. 92. 1838, nom. sub *Synexemia* Raf.; Fl. Tellur. 4:117. 1836 [1838], nom.; New Fl. N. Am. 4:100. 1836 [1838], nom.=*Maschalanthus* Nutt. (1837)=*Andrachne* Linn.
- MEBOREA Aubl.=*Phyllanthus* Linn.
- **guyanensis* Raf. Fl. Tellur. 4:100. 1836 [1838], nom. (*Rhopium citrifolium* Willd.; *Meborea guianensis* Aubl.). Guiana=*Phyllanthus guyanensis* (Aubl.) Muell.-Arg.
- #MEDUSITA Raf. Fl. Tellur. 4:112. 1836 [1838], descr., subgen. *Dactylanthes* Haw.=*Euphorbia* Linn.
- MEIALISA Raf. Sylva Tellur. 63. 1838, descr.=*Adriana* Gaudich. (1825).
- australis* Raf. op. cit. 64, nom. (*Croton quadripartitus* Labill.). Tasmania=*Adriana quadripartita* (Labill.) Gaudich.
- MERLETA Raf. Aut. Bot. 49. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:93. 1921, nom.=? *Croton* Linn.
- microphylla* Raf. l.c., descr.; Pennell, l.c., nom. Cuba.
- MESANDRINIA Raf. Neogen. 3. 1825, nom. nov. *Bivonea* Raf. (1817)=*Jatropha* Linn.
- METERANA Raf. Sylva Tellur. 65. 1838, descr.=*Caperonia* A. St. Hil. (1824).
- arborea* Raf. op. cit. 66, descr. (*Croton castaneifolius* Burm. f. Fl. Ind. 205 (err. 305). t. 64. 1768, non Linn.). Java=*Croton* sp.
- castaneifolia* Raf. l.c., descr. (*Croton castaneifolius* Linn.). South America=*Caperonia castaneifolia* (Linn.) St. Hil.
- dimidiata* Raf. l.c., descr. (*Acalypha australis* Linn., var.). South America=*Caperonia*.
- palustris* Raf. l.c., descr. (*Croton palustris* Linn.). Mexico=*Caperonia palustris* (Linn.) H.B.K.
- MOERORIS Raf. Sylva Tellur. 91. 1838, descr.=*Phyllanthus* Linn.
- stipulata* Raf. l.c., descr. (*Phyllanthus niruri* sensu Sw.). Jamaica=*Phyllanthus niruri* Linn.
- MURTEKIAS Raf. Fl. Tellur. 4:116. 1836 [1838], descr.=*Euphorbia* Linn.
- myrsinites* Raf. l.c., nom. (*Euphorbia myrsinites* Linn.). Southern Europe.
- NELLICA Raf. Sylva Tellur. 92. 1838, descr.=*Phyllanthus* Linn.
- maderaspata* Raf. l.c., nom. (*Phyllanthus maderaspata* Linn.). India.
- NIRURIS Raf. Sylva Tellur. 91. 1838, descr.=*Phyllanthus* Linn.
- annua* Raf. l.c., nom. Hab.?
- indica* Raf. l.c., descr. [*Phyllanthus niruri* Linn.]. Pantropic.
- NISOMENES Raf. Fl. Tellur. 4:116. 1836 [1838], descr.=*Euphorbia* Linn.
- diffusa* Raf. l.c., nom. (*Euphorbia diffusa* Jacq.). Europe.
- ODOTALON Raf. Sylva Tellur. 66. 1838, descr.=*Argythamnia* Sw. (1788) (*Argythamnia* Muell.-Arg., 1865).
- lanceolata* Raf. op. cit. 67, nom. (*Croton lanceolatus* Cav.). Chile=*Argythamnia tricuspidata* (Lam.) Muell.-Arg. var. *lanceolata* (Cav.) Muell.-Arg.
- tricuspidata* Raf. op. cit. 66, nom. (*Croton tricuspidatus* Lam.) Peru, Chile=*Argythamnia tricuspidata* (Lam.) Muell.-Arg.

- #**PARALIAS** Raf. Fl. Tellur. 4:115. 1836 [1838], *descr.*, subgen. *Tithymalis* Raf. [*Tithymalus* Adans.] Type *Euphorbia paralias* Linn.)=*Euphorbia* Linn.
- PECCANA** Raf. Sylva Tellur. 114. 1838, *descr.*; Aut. Bot. 138. 1840, *nom.*=*Euphorbia* Linn.
- glauca* Raf. Sylva Tellur. 115. 1838, *descr.* (*Euphorbia graminea* sensu Sw.). Jamaica.
- PEDILANTHUS** Neck.; Raf. Fl. Tellur. 4:117. 1836 [1838], *descr.*
- myrsifolius* Raf. ex Jacks*. Ind. Kew. 2:447. 1894, *sphalm.*=*P. myrtifolius* Link (*Euphorbia myrtifolia* Lam.). Tropical America=*Pedilanthus tithymaloides* (Linn.) Poit.
- PENTECA** Raf. Sylva Tellur. 62. 1838, *descr.*=*Croton* Linn.
- tomentosa* Raf. l.c., *descr.* (*Croton dioicus* Cav.). Mexico.
- PETALOMA** Raf. ex Baillon Adansonia 1:114. 1860, *nom.* in syn., ut sect. *Euphorbia* Linn., et ex Boiss. in DC. Prodr. 15(2):63. 1862, *descr.*, sect. *Euphorbia* Linn. (Ex Boissier, "Genus Petaloma Rafin. Atl. Jour. 177," *sphalm.*), non Sw. (1788), nec Roxb. (1814, 1832)=*Euphorbia* Linn.; see Wheeler, Am. Midl. Nat. 30:471. 1943. (Type *Lepadena leucoloma* Raf.).
- PHYLLANTHUS** Linn.
- **carolinianus* Raf. Western Minerva 42. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900=*Phyllanthus carolinensis* Walt. Southeastern United States.
- PLEOPADIUM** Raf. Aut. Bot. 50. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.* Ex *descr.*=*Croton* Linn.
- ciliatum* Raf. l.c., *descr.*; Pennell, l.c., *nom.* (*Croton glandulosus* hort.). South America.
- PLEURADENA** Raf. Atl. Jour. 1:182. 1833, *descr.*; Fl. Tellur. 4:113. 1836 [1838], *descr.* [Ind. Kew. 2:562. 1894 *Pleurademia*], non *Pleuradenia* Raf. (1825)=*Euphorbia* Linn. (*Poinsettia* Grah., 1836).
- coccinea* Raf. l.c., *descr.*; Aut. Bot. 96. 1840, *nom.* (*Euphorbia pulcherrima* Willd., 1834; *Euphorbia poinsettiana* Buist ex Grah., 1836; *Poinsettia pulcherrima* Grah., 1836; Hook. Bot. Mag. 63: t. 3493. 1836). Mexico=*Euphorbia pulcherrima* Willd.
- PYTHIUS** Raf. ex Jacks*. Ind. Kew. 2:670. 1895, *sphalm.*=*Pithius* Raf.=*Euphorbia* Linn.
- dulcis* Raf. ex Jacks*. Ind. Kew. 2:670. 1895 (*Euphorbia dulcis* Linn.). Europe.
- epithymoides* Raf. ex Jacks*. l.c. (*Euphorbia epithymoides* Linn.). Europe.
- fuscata* Raf. ex Jacks*. l.c. (*Euphorbia fuscata* Raf. [*Euphorbia pithyusa* Linn.]). Mediterranean region.
- obtusata* Raf. ex Jacks*. l.c. (*Euphorbia obtusata* Pursh). Eastern North America.
- ***PYTHIUSA** Raf. Fl. Tellur. 4:116. 1836 [1838], *descr.* ut subgen. *Tithymalis* Raf. (Type *Euphorbia pithyusa* Linn.; *Tithymalus pithyusa* Scop.)=*Euphorbia* Linn.
- #**SADIDA** Raf. Fl. Tellur. 4:112. 1836 [1838], *nom.*, *nota*, subgen. *Euphorbia* Linn.
- SEBORIUM** Raf. Sylva Tellur. 63. 1838, *descr.*=*Sapium* P. Browne (1756).
- chinense* Raf. l.c., *nom.* (*Stillingia sebifera* Michx.). China =*Sapium sebiferum* (Linn.) Roxb.
- SEMILTA** Raf. Sylva Tellur. 63. 1838, *descr.*; Aut. Bot. 50. 1840, *nom.* sub *Aldinia* Raf.=*Croton* Linn.
- althefolia* Raf. l.c., *nom.* (*Croton althaeifolius* Mill.). Tropical America.
- STILINGIA** Raf. Atl. Jour. 1:146. 1832, *nom.*=*Stillingia* Linn.
- **salicifolia* (Torr.) Raf. Atl. Jour. 1:146. 1832, *nom.* (*S. sylvatica* Linn. var. *salicifolia* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:245. 1827. Canadian River? [Oklahoma?] (*Stillingia lanceolata* Nutt.; *S. smallii* Woot. & Standl.)).
- STILLINGIA** Linn.
- **montana* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains. Prob.=*S. sylvatica* Linn.
- salicifolia* Raf. ex Jacks*. Ind. Kew. 2:998. 1895 [*Stillingia salicifolia*] =*S. salicifolia* (Torr.) Raf.
- SYNEXEMIA** Raf. Neogen. 2. 1825, *descr.*, *nom. nov.* *Geminaria* Raf. (1821); Fl. Tellur. 4:117. 1836 [1838], *descr.* (*Maschalanthus* Nutt. 1837); Sylva Tellur. 92. 1838, *descr.* (*Maschalanthus* Nutt. 1837); New Fl. N. Am. 4:100. 1836 [1838], *nom.*, *nota* (*Maschalanthus* Nutt. 1837)=*Phyllanthus* Linn. et, quoad *Maschalanthus* Nutt.=*Andrachne* Linn.
- caroliniana* Raf. Neogen. 2. 1825, *nom.* (*Phyllanthus carolinensis* Walt.). Eastern North America=*Phyllanthus carolinensis* Walt.
- cuneifolia* Raf. New Fl. N. Am. 4:100. 1836 [1838], *descr.*; Sylva Tellur. 92. 1838, *nom.* Louisiana and Arkansas.
- obovata* Raf. Neogen. 2. 1825, *nom.* (*Phyllanthus obovatus* Muhl.); Sylva Tellur. 92. 1838, *nom.* (*Phyllanthus obovatus* Muhl.). Eastern North America=*Phyllanthus carolinensis* Walt.
- pumila* Raf. Neogen. l.c., *descr.* Kentucky.
- ***TIRUCALIA** Raf. Fl. Tellur. 4:112. 1836 [1838], *descr.*; Aut. Bot. 90. 1840, *nom.*=*Euphorbia* Linn.
- **indica* Raf. l.c., *nom.* (*Euphorbia tirucalli* Linn.). Old World tropics.
- TIRUCALLA** Raf. ex Jacks*. Ind. Kew. 2:1083. 1895=praec.
- indica* Raf. ex Jacks*. l.c.=praec.
- ***TITHYMALIS** Raf. Fl. Tellur. 4:115. 1836 [1838], *descr.*; Aut. Bot. 90. 1840, *nom.*=*Tithymalus* Hill (1756)=*Euphorbia* Linn.
- **amygdaloides* Raf. Aut. Bot. 91. 1840, *nom.* (*Euphorbia amygdaloides* Linn.; *Tithymalus amygdaloides* Hill). Europe.
- **angulata* Raf. Fl. Tellur. 4:115. 1836 [1838], *nom.* (*Euphorbia angulata* Jacq.). Europe.
- **apios* Raf. Aut. Bot. 92. 1840, *nom.* [*Euphorbia apios* Linn.; *Tithymalus apios* Hill]. Crete.
- **bavarica* Raf. Aut. Bot. 91. 1840, *nom. nov. provis.* (*T. verrucosa* Raf. var. *glabra* Raf.). Bavaria.
- **calendula* Raf. op. cit. 92, *nom.* *Euphorbia [calendulaefolia]* Delile. Egypt.
- **carniolica* Raf. Fl. Tellur. 4:115. 1836 [1838], *nom.* (*Euphorbia carniolica* Jacq.). Europe.
- **characias* Raf. l.c., *nom.*; Aut. Bot. 91. 1840, *nom.* (*Euphorbia characias* Linn.; *Tithymalus characias* Hill.). England to Sicily.
- **cinerea* Raf. Aut. Bot. 91. 1840, *descr.* Styria, Bavaria.
- **connata* Raf. Aut. Bot. 92. 1840, *descr.* Syria.
- **coralloides* Raf. Fl. Tellur. 4:115. 1836 [1838], *nom.* (*Euphorbia coralloides* Linn.). Italy.
- **cristata* Raf. l.c., *descr.* (*Euphorbia cornuta* Pers.). Egypt.
- **dendroides* Raf. Fl. Tellur. 4:115. 1836 [1838], *nom.* (*Euphorbia dendroides* Linn.; *Tithymalus dendroides* Hill). Germany.
- **dulcis* Raf. op. cit. 116, *nom.* (*Euphorbia dulcis* Linn.). Germany.
- **epithymoides* Raf. l.c., *nom.* (*Euphorbia epithymoides* Linn.). Europe.
- **floridana* Raf. Aut. Bot. 91. 1840, *descr.* Florida, Georgia.
- **fuscata* Raf. Fl. Tellur. 4:116. 1836 [1838], *nom. alt.* *T. pithyusa* Raf. [*Euphorbia pithyusa* Linn.]. Mediterranean region.
- **gerardi* Raf. l.c., *nom.* (*Euphorbia gerardiana* Jacq.). Europe.
- **granulata* Raf. l.c., *nom.* (*Euphorbia granulata* Forsk.). Africa, Asia.
- **helioscopia* Raf. l.c., *nom.*; Aut. Bot. 92. 1840, *descr.* (*Euphorbia helioscopia* Linn.; *Tithymalus helioscopius* Hill). Europe.
- **hiberna* Raf. Fl. Tellur. l.c., *nom.* (*Euphorbia hyberna* Linn.; *Tithymalus hybernus* Hill). Europe.
- **linearis* Raf. l.c., *nom.* (*Euphorbia linearis* Retz.). West Indies.
- **literata* Raf. l.c., *nom.* (*Euphorbia literata* Jacq.). Europe.
- **maritima* Raf. l.c., *nom. nov.* *Euphorbia paralias* Linn. Europe.
- **micrantha* Raf. l.c., *nom.* (*Euphorbia micrantha* Steph.). Europe.
- **mucronata* Raf. Aut. Bot. 91. 1840, *descr.* Sicily, Crete.
- **obovata* Raf. op. cit. 92, *descr.* (*Euphorbia helioscopia* auct.). New England to Kentucky; England to Sicily=*Euphorbia helioscopia* Linn.
- **obtusata* Raf. Fl. Tellur. 4:115. 1836 [1838], *nom.* (*Euphorbia obtusata* Pursh). North America.
- **palustris* Raf. Fl. Tellur. l.c., *nom.*; Aut. Bot. 92. 1840, *nom.* (*Euphorbia palustris* Linn.; *Tithymalus palustris* Hill). Europe.
- **paniculata* Raf. Fl. Tellur. l.c., *nom.* (*Euphorbia paniculata* Desf.). North Africa.
- **paralias* Raf. Aut. Bot. 92. 1840, *nom.* (*Euphorbia paralias* Linn.; *Tithymalus paralias* Hill). Europe.
- **pilosa* Raf. Fl. Tellur. 4:115. 1836 [1838], *nom.* (*Euphorbia pilosa* Linn.; *Tithymalus pilosus* Hill). Europe.
- **platyphyllos* Raf. l.c., *nom.* (*Euphorbia platyphyllos* Linn.; *Tithymalus platyphyllos* Hill); Aut. Bot. 91. 1840, *nom.* Europe.

- **pythiusa* Raf. Fl. Tellur. op. cit. 116, nom. (*Euphorbia pithyusa* Linn.). Mediterranean region.
- **rosea* Raf. op. cit. 115, nom. (*Euphorbia rosea* Retz.). India.
- **saxatilis* Raf. Aut. Bot. 92. 1840, nom. [*Euphorbia saxatilis* Jacq.]. Styria, Illyria.
- **serotina* Raf. Fl. Tellur. 4:115. 1836 [1838], nom. nov. *Euphorbia characias* Linn. [vel *Euphorbia serotina* Host.]. Europe.
- **spinosa* Raf. l.c., nom. (*Euphorbia spinosa* Linn.). Southern Europe.
- **verrucosa* Raf. l.c., nom.; Aut. Bot. 91. 1840, nom. (*Euphorbia verrucosa* Linn.). Europe.
- var. *glabra* Raf. l.c., descr. Bavaria. (*Tithymalis bavarica* Raf.).
- TITHYMALUS** Hill (1756) (*Tithymalis* Raf., 1838) = *Euphorbia* Linn.
- angulatus Raf. ex Jacks*. Ind. Kew. 2:1085. 1895 (*Euphorbia angulata* Jacq.). Europe.
- carniolicus Raf. ex Jacks*. l.c. (*Euphorbia carniolica* Jacq.). Europe.
- coralloides Raf. ex Jacks*. l.c. (*Euphorbia coralloides* Linn.). Italy.
- gerardi Raf. ex Jacks*. l.c. (*Euphorbia gerardiana* Jacq.). Europe.
- granulata Raf. ex Jacks*. l.c. (*Euphorbia granulata* Forsk.). Africa, Asia.
- linearis Raf. ex Jacks*. l.c. (*Euphorbia linearis* Retz.). West Indies.
- literata Raf. ex Jacks*. l.c. (*Euphorbia literata* Jacq.). Europe.
- micrantha Raf. ex Jacks*. l.c. (*Euphorbia micrantha* Steph.). Europe.
- paniculata Raf. ex Jacks*. l.c. (*Euphorbia paniculata* Desf.). North Africa.
- platyphyllos Raf. ex Jacks*. l.c. (*Euphorbia platyphyllos* Linn.). Europe.
- roseus Raf. ex Jacks*. l.c. (*Euphorbia rosea* Retz.). India.
- serotina Raf. ex Jacks*. l.c. (*Tithymalis serotina* Raf.) = *Euphorbia characias* Linn. Europe.
- verrucosa Raf. ex Jacks*. l.c. (*Euphorbia verrucosa* Linn.). Europe.
- ***TORFASADIS** Raf. Fl. Tellur. 4:112. 1836 [1838], descr. = *Euphorbia* Linn.
- **canariensis* Raf. l.c., nom. (*Euphorbia canariensis* Linn.). Canary Islands.
- TORFOSIDIS** Raf. ex Jacks*. Ind. Kew. 2:1089. 1895, sphalm. = praec.
- canariensis* Raf. ex Jacks*. l.c. = praec.
- TRIPLANDRA** Raf. Sylva Tellur. 62. 1838, descr. = *Croton* Linn.
- lanata Raf. op. cit. 63, descr. (*Croton lanatus* Lour.). Indo-China (Annam) = *Croton lasianthus* Pers.; see Merrill, Trans. Am. Philos. Soc. 24(2):235. 1935.
- #**TULOCARPA** Raf. Fl. Tellur. 4:115. 1836 [1838], descr., subgen. *Tithymalis* Raf. (Type *Tithymalis spinosa* Raf. = *Euphorbia spinosa* Linn.) = *Euphorbia* Linn.
- #**TULOISIA** Raf. Fl. Tellur. 4:115. 1836 [1838], descr., subgen. *Tithymalis* Raf. (Type *Tithymalis verrucosa* Raf. = *Euphorbia verrucosa* Linn.) = *Euphorbia* Linn.
- TUMALIS** Raf. Fl. Tellur. 4:114. 1836 [1838], descr. = *Euphorbia* Linn.
- bojeri Raf. l.c., descr. (*Euphorbia bojeri* Hook. Bot. Mag. 63: t. 3527. 1836). Madagascar.
- VALLARIS** Raf. Fl. Tellur. 4:114. 1836 [1838], descr., non Burm. f. (1768) = *Euphorbia* Linn.
- fimbriata Raf. op. cit. 115, nom. (*Euphorbia fimbriata* Scop.). Europe.
- ipeacuana Raf. l.c., nom., Aut. Bot. 96. 1840, nom. (*Euphorbia ipeacuanhae* Linn.). New Jersey to Carolina.
- var. *heterophylla* Raf. Aut. Bot. l.c., descr.
- linearifolia Raf. l.c., descr. = *E. ipeacuanhae* forma linearis (Mold.) Fern. Rhodora 50:148. 1948.
- portulacoides Raf. l.c., descr. New Jersey.
- uniflora Raf. l.c., descr.
- missurica Raf. Fl. Tellur. 4:115. 1836 [1838], nom. (*Euphorbia missurica* Raf.). Missouri.
- portulacoides Raf. l.c., nom. (*Euphorbia portulacoides* Linn.). Chile.
- uniflora Raf. l.c., nom. (*Euphorbia uniflora* Raf.). Eastern United States.
- VANDERA** Raf. Aut. Bot. 49. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:93. 1921, nom. = ? *Croton* Linn.

- discolor Raf. l.c., descr. ("Croton do Jal[ambic], non alis."); Pennell, l.c., nom. Cuba.
- XAMESIKE** Raf. Fl. Tellur. 4:115. 1836 [1838], descr.; New Fl. N. Am. 4:99. 1836 [1838], nom.; Aut. Bot. 96. 1840, descr. = *Euphorbia* Linn.
- **alsinoides* Raf. Aut. Bot. 98. 1840, descr. Siberia.
- **deltifolia* Raf. l.c., descr. Florida. Ex type, herb. Durand = *E. spathulata* Lam. (*E. dictyosperma* Fisch. & Mey.).
- **depressa* Raf. op. cit. 97, descr. (*Euphorbia depressa* Torr.). New York to Louisiana = *Euphorbia maculata* Linn.
- **glauca* Raf. l.c., descr. Virginia, Kentucky.
- **gracilis* Raf. op. cit. 98, descr. (*Euphorbia gracilis* Ell.). Florida = ? *Euphorbia ipeacuanhae* Linn.
- **hypericifolia* Raf. op. cit. 98, nom. (*Euphorbia hypericifolia* Linn.). Canada to Carolina.
- var. *parviflora* Raf. l.c., descr. Alabama.
- sanguinolenta* Raf. l.c., descr. Pennsylvania.
- **littoralis* Raf. op. cit. 97, descr. New York = *Euphorbia maculata* Linn.
- **maculata* Raf. l.c., descr. (*Euphorbia maculata* Linn.). North America.
- **micranthes* Raf. op. cit. 98, descr. Alabama, Louisiana.
- **microphyla* Raf. l.c., nom. (*Aplarina microphyla* Raf.). Louisiana, Texas.
- **palestina* Raf. op. cit. 97, descr. (*Euphorbia canescens* Linn.). Palestine = *Euphorbia chamaesyce* Linn.
- **polygonia* Raf. op. cit. 98, nom. (*Euphorbia polygonifolia* Linn.). New Jersey to Carolina.
- **prostrata* Raf. op. cit. 99, nom. [*Aplarina prostrata* Raf.]. Pennsylvania.
- **rotundifolia* Raf. l.c., descr. (*Euphorbia humboldtii* Willd.?). Central America.
- scordifolia* Raf. Fl. Tellur. 4:115. 1836 [1838], nom. subnud. [*Euphorbia scordifolia* Jacq.]. Tropical Africa.
- **supina* Raf. Aut. Bot. 97, descr. (*Euphorbia supina* Raf.). New York to Ohio = *Euphorbia maculata* Linn.
- **vermiculata* Raf. l.c., descr. New York to Ohio = *Euphorbia vermiculata* Raf.
- vulgaris Raf. Fl. Tellur. 4:115. 1836 [1838], nom. (*Euphorbia chamaesyce* Linn.). Mediterranean region.
- xamobala Raf. ex Jacks*. Ind. Kew. 2:1235. 1895, sphalm.; "Xamobala" Raf. Fl. Tellur. 4:115. 1836 [1837] est subgen. *Xamesike* Raf.
- ***XAMESUKE** Raf. Aut. Bot. 138. 1840, nom., sphalm. = *Xamesike* Raf. = *Euphorbia* Linn.
- #**XAMOBALA** Raf. Fl. Tellur. 4:115. 1836 [1838], nom. subgen. *Xamesike* Raf.; Aut. Bot. 97. 1840, descr., subgen. *Xamesike* Raf. (Type *Xamesike gracilis* Raf.) = *Euphorbia* Linn.
- #**XARAKIAS** Raf. Fl. Tellur. 4:115. 1836 [1838], descr., subgen. *Tithymalis* Raf. (*Tithymalus* (Tourn.) Boiss., Type *Tithymalis characias* Raf., *Euphorbia characias* Linn.) = *Euphorbia* Linn.
- ZALITEA** Raf. New Fl. N. Am. 4:98. 1836 [1838], descr. = *Euphorbia* Linn. (*Zygophyllidium* (Boiss.) Small, 1903).
- linearis Raf. op. cit. 99, descr.; Aut. Bot. 14. 1840, nom. Red River of Louisiana, Arkansas = *Euphorbia hexagona* Nutt.

CALLITRICHACEAE²¹**CALLITRICHE** Linn.

- connata Raf. Med. Repos. III. 2:408. 1811, descr. (*Callitriche brutia* Petagna). Sicily, Calabria.
- cruciata Raf. l.c., descr.; Am. Monthly Mag. Crit. Rev. 1:359. 1817, nom. Pennsylvania.
- **cuneifolia* Raf. Herb. Raf. 61. 1833, nom. Kentucky or Illinois.
- foliosa Raf. Med. Repos. II. 5:354. 1808, nom. nov. *Callitriche autumnalis* sensu Michx.; Jour. Bot. (Paris) 2:174. 1809 (*C. autumnalis* sensu Michx.); Med. Repos. III. 2:408. 1811, descr. North America = *C. autumnalis* Linn.
- **lanceolata* Raf. Chloris Aetn. 4. 1815, nom. Sicily.
- ovata Raf. Med. Repos. III. 2:408. 1811, descr. Pennsylvania.
- plena Raf. l.c., descr. Europe.

²¹ Rafinesque's "Monography of the Genus Callitriche" announced by him (Précis Découv. Somiol. 1814, p. 3 of cover) as having been sent to the Linnean Society, London, was rejected and never published. He said that he recognized about sixteen species.

CALLITRICHE (*continued*).

- spuria* Raf. Med. Repos. II. 5:354. 1808, *nom. nov.* *Callitriche verna* sensu Michx.; Jour. Bot. (Paris) 2:174. 1809 (*C. verna* sensu Michx.); Med. Repos. III. 2:408. 1811, *descr.* North America=*C. palustris* Linn.
**stellaria* Raf. Med. Repos. III. 2:408. 1811, *descr.* (*Callitriche autumnalis* Linn.). Europe, North America=*C. autumnalis* Linn.
terrestris Raf. Med. Repos. II. 5:358. 1808, *descr.*; Jour. Bot. (Paris) 1:223. 1809, *descr.*; Med. Repos. III. 2:408. 1811, *descr.* (*C. terrestris* Muhl. cf. Muhl. Cat. 1. 1813); Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.* (*C. terrestris* Raf. & Muhl.); op. cit. 4:190. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.*, *nota* (*Callitriche brevifolia* Pursh); First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* New Jersey, Pennsylvania, Delaware and Kentucky=*C. austini* Engelm.; *C. deflexa* R. Br. var. *austini* Hegelm.)=? *C. verna* Linn.; see Fernald, Rhodora 43:589. 1941.

BUXACEAE**PACHYSANDRA** Michx.

- terecta* Raf. Herb. Raf. 62. 1833, *nom.*; Baill. Monogr. Bux. Styloc. 56. 1859, *descr.* Kentucky or Illinois.

EMPETRACEAE

- COLEMA** Raf. New Fl. N. Am. 3:49. 1836 [1838], *nom.*, *sphalm.*=Corema D. Don (1826), see Raf. op. cit. 4:107. 1836 [1838].
arenaria Raf. l.c., *descr.* (*Empetrum conradii* Torr.). New Jersey=Corema conradii (Torr.) Loud.
EMPETRUM Linn.
crassifolium Raf. New Fl. N. Am. 3:51. 1836 [1838], *descr.* Siberia=E. nigrum Linn.
purpureum Raf. op. cit. 50, *descr.* (*E. nigrum* sensu Michx.). Labrador and Newfoundland to the White Mountains and Lake Superior=Empetrum nigrum Linn., forma purpureum (Raf.) Fernald, Rhodora 25:83. 1923.
ENDAMMIA Raf. New Fl. N. Am. 3:49. 1836 [1838], sub *Euleucum* Raf. *nom.*=Corema D. Don (1826).
ericoides Raf. l.c., *nom. alt.* *Colema arenaria* Raf.=Corema conradii (Torr.) New Jersey.
#EULEUCA Raf. New Fl. N. Am. 3:49. 1836 [1838], sub *Colema* [Corema] D. Don, *descr.* subgen. Corema G. Don. (Type *Empetrum album* Linn.)=Corema G. Don (1826).
EULEUCUM Raf. Fl. Tellur. 3:49, *nom.*, 56, *descr.*, 1836 [1837]=Corema D. Don (1826).
album Raf. l.c., *nom.* [*Empetrum album* Linn.]. Southwestern Europe=Corema album (Linn.) D. Don.

LIMNANTHACEAE**FLOERKEA** Willd.

- *flaccida* Raf. Am. Jour. Sci. 1:375. 1819, *nom. alt.* *F. proserpinacoides* Willd.; Isis von Oken 1822, 2:1321. 1822. North America=F. proserpinacoides Willd.
**olitoria* Raf. l.c., *nom. alt.* *F. proserpinacoides* Willd. North America=praec.
**tenella* Raf. l.c., *nom. alt.* *F. proserpinacoides* Willd. North America=praec.
FLORKEA Raf. Med. Repos. II. 5:351. 1808, *nom.*, *nota*; Jour. Bot. (Paris) 2:168. 1809, *nom.*, *nota*; Aut. Bot. 8. 1840, *nom.*, *nota*=Floerkea Willd.
**palustris* Raf. Med. Repos. et Jour. Bot. (Paris) l.c., *nom.*; A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.* Pennsylvania=Floerkea palustris Nutt.=F. proserpinacoides Willd.
**uliginosa* Raf. Aut. Bot. 8. 1840, *nom.* [*Floerkea uliginosa* Muhl.]. Louisiana=Floerkea proserpinacoides Willd.

ANACARDIACEAE

- CALESIA** Raf. Princ. Somiol. 29. 1814, *nom. nov.* *Calesiam* Adans. (1763); Fl. Tellur. 1:85. 1836 [1837], *nom.*=Lannea A. Rich. (1832), *nom. conserv.* (*Calesiam* Adans., 1763; *Odina* Roxb., 1814, 1832; *Haberlia* Dennst., 1818).
CALSIA Raf. Sylva Tellur. 12. 1838, *descr.* (*Kalesjam* Rheede, 1683; *Calesiam* Adans. 1763)=praec.

malabarica Raf. l.c., *descr.* (*Kalesjam* Rheede, Hort. Malabar. 4:67. t. 32. 1683). India=Lannea coromandelina (Houtt.) Merr. (*Odina wodier* Roxb.; *Haberlia grandis* Dennst.; *Lannea grandis* Engl.).

***COMINIA** Raf. Aut. Bot. 83. 1840, *nom. sub* *Sumacus* Raf.=Rhus Linn.

COTINUS Linn.

- *ellipticus* Raf. Aut. Bot. 83. 1840, *descr.* "Mts. of Tyrol, Carniola, Siberia and Oregon?"=Cotinus coggygria Scop.
**obovatus* Raf. op. cit. 82, *descr.* Arkansas, Louisiana. (*Rhus cotinoides* Nutt. ex Torr. & Gray, Fl. N. Am. 1:217. 1838, *nom. in syn.*; *Cotinus americanus* Nutt. Sylva 2: t. 81. 1865); see Little, Proc. Oklahoma Acad. Sci. 23:21. 1943.
**retusus* Raf. l.c., *descr.* Asia=Cotinus coggygria Scop.
FESTANIA Raf. Aut. Bot. 83, *nom.*, 84, *descr.*, 1840; Pennell, Bull. Torr. Bot. Club. 48:93. 1921, *nom.*=Rhus Linn.
nivea Raf. l.c., *descr.*; Pennell, l.c., *nom.* (*Rhus* sp., herb. Collins). Africa. Ex *descr.*=Rhus angustifolia Linn.
***LILITHIA** Raf. Aut. Bot. 83. 1840, *nom. sub* *Sumacus montana* Raf.=Rhus Linn.

†**LOBADIUM** Raf. Am. Monthly Mag. Crit. Rev. 4:192, 207. 1819, *nom.* (*Rhus aromatica* Ait.); op. cit. 357, *descr.*; Jour. Phys. Chim. Hist. Nat. 89:98. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 238. 1820, *descr.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, iter. Britten, Jour. Bot. 38:226. 1900; Aut. Bot. 84, 1840, *nom.*, *nota*=Rhus Linn. sect. Lobadium (Raf.) DC. (*Schmalzia* Desv., 1813).

amentaceum Raf. Am. Monthly Mag. Crit. Rev. 4:358. 1819, *descr.* Pennsylvania=Rhus aromatica Ait.

**fetidum* Raf. Aut. Bot. 84. 1840, *descr.* Alleghany Mountains=? praec.

**rotundifolium* Raf. l.c., *descr.* Alabama, Florida.

**rupestre* Raf. l.c., *descr.* Virginia, Carolina, Kentucky=? Rhus aromatica Ait.

suaveolens Raf. ex Jacks*. Ind. Kew. 2:102. 1894 (*Rhus suaveolens* Ait.; *Myrica trifoliata* sensu Turpin, non Linn.)=Rhus aromatica Ait.

†*trifoliatum* Raf. Western Minerva 42. 1821, *nom.* (*Rhus aromatica* Ait.), iter. Fox, Science II. 12:213. 1900; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* (*Rhus suaveolens* Ait.); Herb. Raf. 62. 1833, *nom.* Kentucky=Rhus aromatica Ait.

**trilobatum* Raf. Aut. Bot. 84. 1840, *nom.* [North America]. Prob.=Rhus trilobata Nutt. (*Schmalzia crenata* (Mill.) Greene).

***MALOSMA** (Nutt.) Raf. Aut. Bot. 83. 1840, *nom. sub* *Sumacus* Raf., *descr.* [*Rhus* Linn., sect. *Malosma* Nutt. ex Torr. & Gray, Fl. N. Am. 1:219. 1838]=Rhus Linn.

**laurina* Nutt. ex Engl. in DC. Monog. Phan. 4:383. 1883, *nom. in syn.*=Rhus laurina Torr. & Gray. North America.

PHILOSTEMON Raf. Fl. Ludovic. 107. 1817, *descr.*; Aut. Bot. 83, 1840, *descr.*=Rhus Linn. (*Toxicodendron* Linn.).

**lutescens* Raf. Aut. Bot. 83. 1840, *descr.* (*Philostemon radicans* Raf. Fl. Ludovic. 107. 1817); Herb. Raf. 56. 1833, *nom.* Florida to Louisiana=Rhus toxicodendron Linn. var. *radicans* (Linn.) Torr.=R. radicans Linn.

radicans Raf. Fl. Ludovic. 107. 1817, *descr.* (*Terebinthacée liane* Rob. Voy. Louis. 3:506. 1807); Aut. Bot. 83. 1840, *descr.* (*Rhus radicans* Linn.). Louisiana=Rhus toxicodendron Linn. var. *radicans* (Linn.) Torr.=R. radicans Linn.

**toxicodendron* Raf. Aut. Bot. 83. 1840, *descr.* (*Rhus toxicodendron* Linn.). North America.

RHUS Linn.

**toxicum* Raf. Med. Fl. 2:257. 1830, *nom.* (*R. toxicarium* Salisb.)=Rhus toxicodendron Linn. Eastern North America.

†**SCHMALTZIA** Desv. Jour. Bot. Desv. 2:229. 1813, *nom. nov.* Turpinia Raf.; Raf. Loud. Gard. Mag. 8: 246. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, iter. Britten, Jour. Bot. 38:226. 1900; Steud. Nomencl. ed. 2, 2:531. 1841, *nom.*=Schmalzia Desv. in DC. Prodr. 2:72. 1825, *nom. in syn.*, sub *Rhus* Linn., sect. *Lobadium* (Raf.) DC.=Rhus Linn.

***SUMACHIUM** Raf. Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom. nov.* Rhus Linn.

***SUMACUS** Raf. Fl. Tellur. 3:56. 1836 [1837], *nom. nov.* Rhus Linn.; Aut. Bot. 83. 1840 (*Rhus* Linn.)=Rhus Linn., sect. Sumac DC.

**copallina* Raf. l.c., *nom.*, *nota* (*Rhus copallina* Linn.). New Jersey.

- **floridana* Raf. l.c., *nom.* New Jersey ?
 **montana* Raf. l.c., *nom.* Alleghany Mountains.
 ***THEZERA** Raf. Aut. Bot. 83. 1840, *nom.*, sub *Sumacus* Raf. = ?
Rhus Linn.
TURPINIA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *nota* (*Rhus aromatica* Ait.), iter. Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, iter. Britten, Jour. Bot. 38:226. 1900, non *Turpinia* Vent. (1803)=*Lobadium* Raf. (1819)=*Schmaltzia* Desv. (1814)=*Rhus* Linn., sect. *Lobadium* (Raf.) DC.
aromatica Raf. ex Jacks*. Ind. Kew. 1:1138. 1895 (*Rhus aromatica* Ait.). Eastern North America=*Rhus aromatica* Ait.
glabra Raf. Med. Fl. et Jour. Bot. (Paris) II.cc., *nom.* (*Rhus canadensis* Marsh.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.*; Eastern North America=prae.
pubescens Raf. II.cc., *nom.* (*Rhus aromatica* Ait.); A. Gray, l.c., *nom.* Eastern North America=prae.
suaveolens Raf. ex Jacks*. Ind. Kew. 2:1138. 1895 (*Rhus suaveolens* sensu Michx.). Eastern North America=prae.

CYRILLACEAE

- CYRILLA** Garden ex Linn.
fusca Raf. Aut. Bot. 8. 1840, *descr.* Alabama, Georgia=*Cyrilla racemiflora* Linn.
parvifolia Raf. l.c., *descr.* Alabama, Florida; Small, Man. Southeast. Fl. 812. 1933=prae.
polystachia Raf. l.c., *descr.* Florida, Louisiana=prae.

AQUIFOLIACEAE

- AGERIA** Adans.; Raf. Sylva Tellur. 46. 1838, *descr.*=*Ilex* Linn.
acuminata Raf. l.c., *descr.* (*Ilex acuminata* Willd.; *Ilex macoucoua* Pers.; *Macoucoua guianensis* Aubl.). Guiana=*Ilex guianensis* (Aubl.) O. Kuntze.
cassena Raf. op. cit. 47, *descr.* (*Ilex cassena* Michx.; *Ilex vomitoria* Ait.). North America=*Ilex vomitoria* Ait. (*I. caroliniana* Loesen., non Mill.).
geminata Raf. op. cit. 48, *descr.* Appalachian Mountains=prae.
heterophylla Raf. l.c., *descr.* Alabama, Florida=*I. cassine* Linn.
mucronata Raf. op. cit. 47, *descr.* Appalachian Mountains.
obovata Raf. op. cit. 48, *descr.* Florida=*I. cassine* Linn.
opaca Raf. op. cit. 47, *descr.* (*Ilex opaca* Ait.). Eastern North America.
ovalis Raf. op. cit. 48, *descr.* (*Paltoria ovalis* Ruiz & Pavon; *Ilex paltoria* Pers.). Peru.
palustris Raf. op. cit. 47, *descr.* (*Ilex dahoon* Walt.; *Ilex cassine* Linn.). Carolina=*I. cassine* Linn.
retusa Raf. op. cit. 46, *descr.* Western Kentucky.
uniflora Raf. op. cit. 47, *descr.* Alabama.
AQUIFOLIUM Mill.=*Ilex* Linn.
croceum Raf. Sylva Tellur. 44. 1838, *nom.* [*Ilex crocea* Thunb.]. South Africa=*Elaeodendron croceum* (Thunb.) DC. (Celastraceae).
ferox Mill. ex Raf. l.c., *descr.* Europe=*Ilex aquifolium* Linn.
heterophyllum Raf. l.c., *descr.* Europe=*Ilex aquifolium* Linn.
forma heterophylla (Ait.) Loesen.
japonicum Raf. l.c., *nom.* [*Ilex japonica* Thunb.]. Japan=*Mahonia japonica* (Thunb.) DC. (Berberidaceae).
lanceolatum Raf. l.c., *descr.* Germany=*Ilex aquifolium* Linn.
forma bacciflora (West.) Rehd.
planifolium Raf. l.c., *descr.* Spain=? *Ilex perado* Ait.
undulatum Raf. l.c., *descr.* Europe=*Ilex aquifolium* Linn.
ARINEMIA Raf. Sylva Tellur. 49. 1838, *descr.*=*Ilex* Linn.
lanceolata Raf. l.c., *descr.* (*Prinos lanceolatus* Pursh). Carolina=*Ilex lanceolata* Chapm., non Klotzsch, nec Griseb.=*Ilex laevigata* (Pursh) A. Gray.
BRAXYLIS Raf. Sylva Tellur. 51. 1838, *descr.*=*Ilex* Linn.
obcordata Raf. l.c., *descr.* (*Ilex obcordata* Sw.). Jamaica.
#DAHUNIA Raf. Sylva Tellur. 46. 1838, *descr.* subgen. *Ageria* Raf.=*Ilex* Linn.
#EMETILA Raf. Sylva Tellur. 45. 1838, *descr.* subgen. *Ilex* Linn. (Type *Ilex ramulosa* Raf., *Cassine ramulosa* Raf.)=*Ilex* Linn.
**ramulosa* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 158, *nom.* in syn. Louisiana, Florida=*Ilex vomitoria* Ait.

- ENNEPTA** Raf. Sylva Tellur. 52. 1838, *descr.*=*Ilex* Linn.
atomaria Raf. l.c., *nom.* [*Prinos glaber* Linn.]. Eastern United States=*Ilex glabra* (Linn.) A. Gray.
coriacea Raf. l.c., *nom.* [*Prinos glaber* Linn.]. Eastern United States=prae.
myricoides Raf. l.c., *nom.* (*Prinos glaber* Linn.). Eastern United States=prae.
HEXACADICA Raf. Sylva Tellur. 158. 1838, *descr.* [*Hexadica* Lour.]=*Ilex* Linn.
corymbosa Raf. l.c., *descr.* (*Hexadica [cochinchinensis* Lour.]). Indo-China (Annam)=*Ilex cochinchinensis* (Lour.) Loesen.; see Merr. Trans. Am. Philos. Soc. II. 24(2): 245. 1935.
†**HEXOTRIA** Raf. Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.* (*Prinos lanceolatus* Pursh)=*Ilex* Linn.
lanceolata Raf. ex Jacks*. Ind. Kew. 1:1143. 1893 (*Prinos lanceolatus* Pursh). Eastern North America=*Ilex laevigata* (Pursh) A. Gray.
***HIEROPHYLLUS** Raf. Med. Fl. 2:8. 1830, *descr.*, in *nota*=*Ilex* Linn.
**cassine* Raf. l.c., *nom.* [*Ilex cassine* Walt.; *I. vomitoria* Ait.]. Southeastern United States.
ILEX Linn.
**acuminata* Raf. Herb. Raf. 58. 1833, *nom.* Kentucky (Wasioto Hills).
**barbara* Raf. Sylva Tellur. 45. 1838, *nom.* sub *Cassine* [*Cassine barbara* Linn.]. South Africa=*Cassine barbara* Linn. (Celastraceae).
**capensis* Raf. l.c., *nom.* sub *Cassine* [*Cassine capensis* Linn.]. South Africa=*Cassine capensis* Linn. (Celastraceae).
**concava* Raf. l.c., *nom.* sub *Maurocena* [*Cassine concava* Lam.]. South Africa=*Celastrus lucidus* Linn. f. (Celastraceae).
**dahon* Raf. Med. Fl. 2:205. 1830, *nom.*=seq.
**dahon* Raf. Sylva Tellur. 45. 1838, *nom.* sub *Ageria palustris* Raf.=*Ilex dahoon* Walt.=*Ilex cassine* Linn. Southeastern United States.
**integrifolia* Raf. Herb. Raf. 58. 1833, *nom.* Appalachian Mountains.
**laevigata* Raf. Sylva Tellur. 45. 1838, *nom.* [*Cassine laevigata* Lam.]. South Africa=*Pterocelastrus rostratus* (Thunb.) Walp. (Celastraceae).
**macucua* Raf. op. cit. 46, *nom.* sub *Ageria acuminata* Raf. Guiana=*Ilex macoucoua* Pers.=*I. guianensis* (Aubl.) O. Kuntze.
**oleifolia* Raf. op. cit. 45, *nom.* sub *Cassine* [*Cassine oleifolia* Pers.]. South Africa=*Celastrus oleoides* Lam. (Celastraceae).
opaca Ait.; Raf. Med. Fl. 2:7. f. 53. 1830, *descr.* Eastern United States.
var. *acuminata* Raf. op. cit. 8, *descr.*
globosa Raf. l.c., *descr.*
latifolia Raf. l.c., *descr.*
macrodon Raf. l.c., *descr.*
ramulosa Raf. Sylva Tellur. 45. 1838, *descr.* (*Cassine ramulosa* Raf.). Louisiana, Florida.
**retusa* Raf. Herb. Raf. 58. 1833, *nom.* Kentucky.
**xylocarpa* Raf. Sylva Tellur. 45. 1838, *descr.* (*Cassine xylocarpa* Vent.). West Indies=*Elaeodendron xylocarpum* (Vent.) DC. (Celastraceae).
#MACUCUA Raf. Sylva Tellur. 46. 1838, *descr.* ut subgen. *Ageria* Raf.=*Macucua* J. F. Gmel.=*Macoucoua* Aubl.=*Ilex* Linn.
**guianensis* Raf. l.c., *nom.* sub *Ageria* Raf. Guiana=*Macoucoua guianensis* Aubl.=*Ilex macoucoua* Pers.=*Ilex guianensis* (Aubl.) O. Kuntze.
NEMOPANTHES Raf. Jour. Phys. Chim. Hist. Nat. 89:96. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 237. 1820, *descr.*; New Fl. N. Am. 1:25. 1836, *nom.*; Sylva Tellur. 51. 1838, *nom.*, *nota*=*Nemopanthus* Raf. (1818), *nom. conserv.* (*Ilicioides* Dum. Cours., 1802).
**canadensis* Raf. Sylva Tellur. 51. 1838, *descr.* (*Ilex canadensis* Michx.). Canada (Hudson Bay)=*Nemopanthus canadensis* DC.=*Nemopanthus mucronatus* (Linn.) Trel.
**fascicularis* Raf. Am. Monthly Mag. Crit. Rev. 4:357. 1819, *descr.* (*Ilex canadensis* Michx.); Jour. Phys. Chim. Hist. Nat., et Isis von Oken, l.c., *nom.* (*Ilex canadensis* Michx.); Herb. Raf. 58. 1833, *nom.*; Sylva Tellur. 51. 1838, *descr.* New England, New York, Ohio=*Nemopanthus mucronatus* (Linn.) Trel.

- †**NEMOPANTHUS** Raf. Fl. Ludovic. 167. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.*; op. cit. 4: 357. 1819, *descr.*; Am. Jour. Sci. 1:188, *nom.*, 191, *nom.*, 377, *descr.* 1819; Spreng. Neue Entdeck. 2:207. 1821, *nom.*, *nota*; Isis von Oken 1822, 2:1322. 1822, *descr.*, *nom. conserv.* (*Ilicoides* Dum. Cours., 1802).
- †**fascicularis** Raf. Am. Monthly Mag. Crit. Rev. 4:257. 1819, *nom.* (*Ilex canadensis* Michx.); Am. Jour. Sci. 1:377. 1819, *descr.*; Isis von Oken 1822, 2:1322. 1822, *descr.* (*Ilex canadensis* Michx.). Catskill Mountains, New York=*Nemopanthus mucronatus* (Linn.) Trel.
- #**NOTHOLEX** Raf. Sylva Tellur. 47. 1838, *nom.*, *nota*, gen. vel subgen. provis. *Ageria* Raf. (Type *Ilex opaca* Ait.)=*Ilex* Linn.
- PRINOS** Linn.=*Ilex* Linn.
- longipes** Raf. Herb. Raf. 58. 1833, *nom.*; Sylva Tellur. 50. 1838, *descr.* Virginia=*Nemopanthus mucronatus* (Linn.) Trel.
- parvifolius** Raf. Ilcc., *nom.*, *descr.* Appalachian Mountains.
- punctatus** Raf. Ilcc., *nom.*, *descr.* Alleghany Mountains.
- var. **angustifolius** Raf. Sylva Tellur. l.c., *descr.*
- reticulatus** Raf. Sylva Tellur. l.c., *descr.* Alabama.
- rugosus** Raf. Ilcc., *nom.*, *descr.* Kentucky.
- ***triflorus** Raf. Herb. Raf. 58. 1833, *nom.* Ohio.
- verrucosus** Raf. Herb. Raf. et Sylva Tellur. Ilcc., *nom.*, *descr.* Alleghany Mountains.
- #**PALTORIA** Raf. Sylva Tellur. 46. 1838, *descr.*, subgen. *Ageria* Raf. (*Paltoria* Ruiz & Pavon, ut gen.)=*Ilex* Linn.
- ***PULTORIA** Raf. Fl. Ludovic. 111. 1817, *nom.* sub *Ilex opaca* Ait., *sphalm.*=*Paltoria* Ruiz & Pavon=*Ilex* Linn.
- SYNSTIMA** Raf. Sylva Tellur. 48. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Ilex* Linn.
- acuminata** Raf. op. cit. 49, *descr.* Appalachian and Wasioto Mountains=*Ilex ambigua* (Michx.) Chapm.
- ambigua** Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:157. 1878, *nom.* in syn. [*Prinos ambiguus* Michx.]. Southeastern United States=seq.
- caroliniana** Raf. Sylva Tellur. l.c., *descr.* (*Cassine caroliniana* Walt.; *Prinos ambiguus* Michx.). Carolina=*Ilex ambigua* (Michx.) Chapm.
- rotundifolia** Raf. l.c., *descr.* Florida.
- TATINA** Raf. Aut. Bot. 75. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.* Ex *descr.*=*Ilex* Linn.
- parviflora** Raf. l.c., *descr.*; Pennell, l.c. *nom.* Mississippi, Arkansas.

CELASTRACEAE

CASSINE Linn.

- ***amulosa** Raf. Med. Fl. 2:205. 1830, *nom.*, *sphalm.*=*Cassine ramulosa* Raf. Louisiana=*Ilex vomitoria* Ait. (Aquifoliaceae).
- ***colpun** Raf. Sylva Tellur. 45. 1838, *nom.* sub *Colpunia* Raf. (*Cassine colpoon* Thunb.). South Africa=*Cassine capensis* Linn.
- ramulosa** Raf. Fl. Ludovic. 110. 1817, *descr.* (*Cassine* Rob. Voy. Louis. 3:513. 1807); Med. Fl. 2:9. 1830, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana=*Ilex cassine* Walt. (Aquifoliaceae).

CELASTRUS Linn.

- acuminatus** Raf. New Fl. N. Am. 3:14. 1836 [1838], *descr.* ("an *Celastrus myrtifolius*? L. ad Virg. not Jamaica!"). Appalachian Mountains of Virginia=*C. scandens* Linn.
- #**COLPUNIA** Raf. Sylva Tellur. 45. 1838, *descr.*, subgen. *Ilex* Raf. (*Euonymus colpun* [colpoon Linn.]; *Cassine colpun* [colpoon Thunb.]). South Africa=*Cassine* Linn.

EUONYMUS Linn.

- †**acuminatus** Raf. Herb. Raf. 51. 1833, *nom.*; New Fl. N. Am. 3:59. 1836 [1838], *descr.* Oregon "and Siberia."
- atropurpureus** Jacq.; Raf. New Fl. N. Am. 3:60. 1836 [1838]. Carolina to Kentucky, Missouri and Oregon.
- var. **grandifolius** Raf. l.c., *descr.*
- latifolius** Raf. l.c., *descr.*
- oblongifolius** Raf. l.c., *descr.*
- ***biflorus** Raf. Herb. Raf. 58. 1833, *nom.* Kentucky.
- ***colpun** Raf. Sylva Tellur. 45. 1838, *nom.* sub *Colpunia* Raf. South Africa=*Euonymus colpoon* Linn.=*Cassine capensis* Linn.
- †**cuneatus** Raf. Herb. Raf. 51. 1833, *nom.*; New Fl. N. Am. 3:59. 1836 [1838], *descr.* Oregon.
- †**heterophyllus** Raf. op. cit. 58, *nom.*; New Fl. l.c., *descr.* Appalachian Mountains.

†**muricatus** Raf. Ilcc., *nom.*, *descr.* (*E. americanus* Linn.). Canada to Carolina.

var. **biflorus** Raf. New Fl. N. Am. 3:60. 1836 [1838], *descr.*

obliquatus Raf. l.c., *descr.* Alleghany Mountains.

EVONYMUS Linn., see *Euonymus* Linn.

#**OSTEORAX** Raf. Sylva Tellur. 45. 1838, *descr.*, subgen. *Ilex* Linn. (Type *Ilex xylocarpa* Raf.; *Cassine xylocarpa* Vent.)=*Elaeodendron* Jacq. (1787).

PACHISTIMA Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.* (*Ilex myrsinitis* Pursh); op. cit. 4:191. 1819, *nom.* (*Ilex myrsinitis* Pursh; *Myginda myrtifolia* Nutt.); Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.* (*Ilex myrsinitis* Pursh; *Myginda myrtifolia* Nutt.)=*Paxistima* Raf., 1838.

myrsinitis Raf. ex Jacks*. Ind. Kew. 2:397. 1894 (*Ilex myrsinitis* Pursh). Oregon=*Paxistima myrtifolia* (Nutt.) Wheeler, Am. Midl. Nat. 29:793. 1943.

†**PACHYSTIMA** Raf. ex Endl. Gen. Suppl. 1:1089. 1840, *nom.* in syn. sub *Oreophila* Nutt.; op. cit. 1424. 1841, *nom.* (*Oreophila* Nutt. 1840, non D. Don. 1830)=seq.

***PAXISTIMA** Raf. Sylva Tellur. 42. 1838, *descr.* (*Pachistima* Raf.).

***myrsinites** Raf. l.c., *descr.* (*Ilex myrsinites* Pursh; *Myginda myrtifolia* sensu Hook. Fl. Bor. Am. 1:120. t. 41. 1830). Oregon=*Paxistima myrtifolia* (Nutt.) Wheeler, Am. Midl. Nat. 29:793. 1943.

#**PENTINIUS** Raf. New Fl. N. Am. 3:59. 1836 [1838], *descr.*, subgen. *Euonymus* Linn. (Type *Euonymus muricatus* Raf.).

#**PHYSCONDRA** Raf. New Fl. N. Am. 3:59. 1836 [1838], *descr.*, subgen. *Euonymus* Linn. (Type *E. atropurpureus* Jacq.)=*Euonymus* Linn.

#**PLATOMESUS** Raf. Herb. Raf. 58. 1833, *nom.*, subgen. *Euonymus* Linn.; New Fl. N. Am. 3:58. 1836 [1838], *descr.*, subgen. *Euonymus* Linn. (Type *Euonymus heterophyllus* Raf.).

SEMARILLA Raf. Sylva Tellur. 146. 1838, *descr.*=*Gymnosporia* Benth. & Hook. f. (1862), *nom. conserv.* (*Burglaria* Wendl. 1821, *nom.*; *Scytophyllum* Eckl., 1835; *Encentrum* Presl, 1844; *Polyacanthus* Presl, 1844).

bicolor Raf. l.c., *descr.* (*Celastrus decolor* Delile, Cent. Pl. Afr. Voy. Meroë 2:100. t. 64. 1826). Africa=*Gymnosporia senegalensis* (Lam.) Loesen.

#**TOBIRA** Raf. Herb. Raf. 58. 1833, *nom.* *subnud.*, subgen. *Euonymus* Linn. (*Euonymus muricatus* Raf.); New Fl. N. Am. 3:58. 1836 [1838], *descr.*=*Euonymus* Linn.

HIPPOCRATEACEAE

- CURONDIA** Raf. Sylva Tellur. 154. 1838, *descr.*=*Christmannia* Dennst. (1818)=*Salacia* Linn.
- axillaris** Raf. l.c., *descr.* (*Courondi* Rheede, Hort. Malabar. 4:103. t. 50. 1673 [1683]). India=*Christmannia courondi* Dennst. (1818)=*Salacia* sp.

STAPHYLEACEAE

- HEBOKIA** Raf. Alsogr. Am. 47. 1838, *descr.*=*Euscaphis* Sieb. & Zucc. 1835 [1840].
- japonica** Raf. l.c., *descr.* (*Sambucus japonica* Thunb.). Japan=*Euscaphis japonica* (Thunb.) Kanitz. Termész Füzetek 3:157. 1878.

ACERACEAE

ACER Linn.

- fraxinifolium** Raf. New Fl. N. Am. 1:48. 1836, *descr.*=*Acer negundo* Linn.
- lobatum** Raf. l.c., *descr.*, sub *Negundo* Moench. Appalachian Mountains=*Acer negundo* Linn.
- palmatum** Raf. l.c., *descr.*, sub *Sphenodermus* Raf. Oregon. (Lewis & Clark)=*Acer macrophyllum* Pursh.
- trifoliatum** Raf. l.c., *descr.*, sub *Negundo*. Texas, Arkansas=*Acer negundo* Linn.
- †**virgatum** Raf. Herb. Raf. 54. 1833, *nom.*; New Fl. N. Am. l.c., *descr.* Northwestern United States (Lewis & Clark)=*Acer circinatum* Pursh.
- ***AKER** Raf. New Fl. N. Am. 3:6, 10. 1836 [1838], *nom.*=*prae*.
- #**ANTADENIUM** Raf. New Fl. N. Am. 1:49. 1836, *descr.*, subgen. *Acer* Linn. (Type *Acer circinatum* Pursh). North America.

- #**CLINOTROX** Raf. New Fl. N. Am. 1:47. 1836, *descr.*, subgen. *Acer* Linn. (Type *Acer rubrum* Linn.)=*Acer* Linn. (*Rufacer* Small, 1933).
- #**ERIOCARPUM** Raf. New Fl. N. Am. 1:47. 1836, *descr.*, subgen. *Acer* Linn. (Type *Acer dasycarpum* Ehrh.) (*Argentacer* Small, 1933).
- #**EVOTRIUM** Raf. New Fl. N. Am. 1:47. 1836, *descr.*, subgen. *Acer* Linn. (Types *Acer spicatum* Duroi=*A. pennsylvanicum* Linn.; *A. spicatum* Lam.)=*Acer* Linn.
- NEGUNDIUM** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*; New Fl. N. Am. 1:48. 1836, *descr.*=*Acer* Linn.
- ***fraxineum** Raf. Med. Fl. 2:245. 1830, *nom.*; Loud. Gard. Mag. 8:248. 1832, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 73. 1833, *iter.* Britten, Jour. Bot. 38:228. 1900, *nom. nov.* *Negundium americanum* DC. Eastern North America=*Acer negundo* Linn.
- fraxinifolium** Raf. Med. Repos. II. 5:352. 1808, *nom. nov.* *Acer negundo* Linn.; Jour. Bot. (Paris) 2:170. 1809, *nom.* (*Acer negundo* Linn.); A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.*; Med. Fl. 2:185. 1830, *nom.*; New Fl. N. Am. 1:48. 1836, *descr.* North America=*Acer negundo* Linn.
- lobatum** Raf. New Fl. N. Am. 1:48. 1836, *descr.* Appalachian Mountains=*Acer negundo* Linn.
- trifoliatum** Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 21. 1833, *descr.*; New Fl. N. Am. 1:48. 1836, *descr.* Texas and Arkansas=*Acer negundo* Linn.
- #**SACHARODENDRON** Raf. New Fl. N. Am. 1:47. 1836, *descr.*, subgen. *Acer* Linn. (Type *Acer saccharinum* Linn.)=*Acer* Linn. (*Saccharodendron* (Raf.) Nieuwl., 1914; *Argentacer* Small, 1933).
- #**SPHENDAMUS** Raf. New Fl. N. Am. 1:48. 1836, *descr.*, subgen. *Acer* Linn. (Type *Acer macrophyllum* Pursh).

HIPPOCASTANACEAE

- AESCULUS** Linn.
- alba** Raf. Alsogr. Am. 69. 1838, *descr.* (*Aesculus *ohiotensis* Lindl. Bot. Reg. 24: t. 51. 1838). North America=*Aesculus glabra* Willd.
- barbata** Raf. op. cit. 70, *descr.* Alabama=*A. carnea* Hayne.
- ***florida** Bartr. Trav. 401. 1791, *descr.*; Raf. l.c., *nom.*, *nota*. Alabama=? *A. pavia* Linn.
- ***floridana** Bartr. ex Fernald, Rhodora 46:48. 1944, *nom.*, *nota*=*praec.*
- ***hystrix** Raf. Alsogr. Am. 69. 1838, *descr.* Cumberland River =*A. octandra* Marsh.
- levigata** Raf. op. cit. 70, *descr.* Europe=*A. carnea* Hayne.
- muricata** Raf. op. cit. 68, *descr.* Lake Erie to Missouri=*A. glabra* Willd.
- ochroleuca** Raf. l.c., *descr.* Ohio, Kentucky, Tennessee, Illinois=*praec.*
- ***ohiensis** Raf. l.c., *nom.*=*A. ohioensis* Michx.=*A. glabra* Willd. Ohio.
- ***stolonifera** Raf. Alsogr. Am. 75. 1838, *nom.* in syn. (*Aesculus* sp. Bartr. Trav. 395. 1791, *descr.*). Alabama=*A. parviflora* Walt.
- verrucosa** Raf. op. cit. 69, *descr.* Kentucky=*A. glabra* Willd.
- #**DIONIXILA** Raf. Alsogr. Am. 72. 1838, sub *Pavia punctata* Raf. *nom. nov. provis.*, subgen. *Pavia* Mill.=*Aesculus* Linn.
- ESCULUS** Linn.=*Aesculus* Linn.
- ***hipocastanea** Raf. Med. Fl. 2:219. 1830, *nom.*, *nota*=*Aesculus hippocastanum* Linn. Asia Minor.
- #**FLAVARIA** Raf. Alsogr. Am. 73. 1838, *nom. provis.*, subgen. *Pavia* Mill. (Type, *Pavia flava* Moench)=*Aesculus* Linn.
- HIPPOCASTANUM** Mill.=*Aesculus* Linn.
- barbatum** Raf. ex Jacks*. Ind. Kew. 1:1163. 1893 (*Aesculus barbata* Raf.). Alabama=*Aesculus carnea* Hayne.
- carneum** Raf. ex Jacks*. l.c. (*Aesculus carnea* Hayne). Eastern North America=*Aesculus *carnea* Hayne, Abbild. Fremd. Holztart, 25: t. 22. 1822; Wats. Dendr. Brit. 2: t. 121. 1825.
- levigatum** Raf. ex Jacks*. l.c. (*Aesculus levigata* Raf.). Europe=*A. carnea* Hayne.
- rubicundum** Raf. ex Jacks*. l.c. (*Aesculus rubicunda* Lodd.). Eastern North America=*Aesculus carnea* Hayne.
- MACROTHYRSUS** Spach=*Aesculus* Linn.
- odorata** Raf. Alsogr. Am. 75. 1838, *descr.* (*Aesculus* sp. Bartram, Travels 395. 1791, *descr.*). Florida=*A. parviflora* Walt.

- NEBROPSIS** Raf. Alsogr. Am. 68. 1838, *descr.*; Good Book 49. 1840, *nom.*=*Aesculus* Linn.
- alba** Raf. Alsogr. Am. 69. 1838, *nom. alt.* *Aesculus alba* Raf. =seq.
- glabra** Raf. l.c., *nom. alt.* *Aesculus glabra* Willd.
- ***hystrix** Raf. l.c., *nom. alt.* *Aesculus hystrix* Raf.=*A. octandra* Marsh.
- muricata** Raf. op. cit. 68, *nom. alt.* *Aesculus muricata* Raf. =*A. glabra* Willd.
- neglecta** Raf. op. cit. 70, *nom. alt.* *Aesculus neglecta* Lindl.
- ochroleuca** Raf. op. cit. 68, *nom. alt.* *Aesculus ochroleuca* Raf. =*A. glabra* Willd.
- pallida** Raf. op. cit. 69, *nom. alt.* *Aesculus pallida* Willd.=*A. glabra* Willd. f. *pallida* (Willd.) Hort. ex Schelle.
- verrucosa** Raf. l.c., *nom. alt.* *Aesculus verrucosa* Raf.=*A. glabra* Willd.
- OZOTIS** Raf. Alsogr. Am. 71. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Aesculus* Linn.
- trifoliata** Raf. l.c., *descr.* Arkansas.
- PAVIA** Mill.=*Aesculus* Linn.
- arguta** Raf. Alsogr. Am. 74. 1838, *descr.* (*Aesculus pavia* Linn. var. *arguta* Lindl. Bot. Reg. 12: t. 993. 1826). Europe (cult.).
- ***axillata** Raf. Western Minerva 41. 1821, *nom.*, *iter.* Fox, Sci. II. 12:212. 1900 (*Pavia pallida* Raf.). Kentucky=*Aesculus glabra* Willd.
- bicolor** Raf. Alsogr. Am. 74. 1838, *descr.* Ohio to Missouri=*Aesculus octandra* Marsh.
- ***echinata** Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.* Kentucky.
- fulva** Raf. Alsogr. Am. 74. 1838, *descr.* Alabama.
- glauca** Raf. op. cit. 71, *descr.* Florida.
- ***hystrix** Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Herb. Raf. 56. 1833, *nom. subnud.* Cumberland Mountains=*Aesculus octandra* Marsh.
- longiflora** Raf. Alsogr. Am. 72. 1838, *descr.* Maryland to Carolina=*Aesculus pavia* Linn.
- mollis** Raf. op. cit. 71, *descr.* Arkansas=*Aesculus discolor* Pursh, var. *mollis* (Raf.) Sarg.
- ***muricata** Raf. Western Rev. Miscel. Mag. 2:94. 1819, *nom.* Kentucky=*Aesculus glabra* Willd.
- ***ocroleuca** Raf. Herb. Raf. 56. 1833, *nom.* Kentucky=seq.
- ***ochroleuca** Raf. Western Minerva 41. 1821, *nom.*, *iter.* Fox, Science II. 12:212. 1900 (*P. pallida* Raf.). Kentucky=*Aesculus glabra* Willd.
- ***pallida** Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.* Kentucky=*praec.*
- parviflora** Raf. Alsogr. Am. 73. 1838, *descr.* Carolina to Florida.
- punctata** Raf. op. cit. 72, *descr.* North Carolina, Georgia, Alabama.
- reticulata** Raf. op. cit. 73, *descr.*, *nom. nov. provis.* *Pavia flava* Moench [*Aesculus flava* Ait.]. Eastern North America=*Aesculus octandra* Marsh.
- PAVIANA** Raf. Fl. Ludovic. 87, 1817, *nom.* (*Pavia* Boerh. [Mill.]); Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom. nov. provis.* *Pavia* Boerh. [Mill.]=*Aesculus* Linn.
- coccinea** Raf. Fl. Ludovic. l.c., *nom. nov.* *Aesculus pavia* Linn. (*Pavia à fleurs rouges* Rob. Voy. Louis. 3:470. 1807). Louisiana=*Aesculus pavia* Linn.
- flava** Raf. l.c., *descr.* (*Pavia à fleurs jaunes* Rob. l.c.; *Aesculus flava* Ait.). Florida=*Aesculus octandra* Marsh.

SAPINDACEAE

- BONANNIA** Raf. Specch. Sci. 1:115. 1814, *descr.*=*Blighia* Koenig (1806).
- nitida** Raf. op. cit. 116, *descr.* West Africa, West Indies (cult.)=*Blighia sapida* Koenig.
- SAPINDUS** Linn.
- acuminata** Raf. New Fl. N. Am. 3:22. 1836 [1838], *descr.* (*Sapindus saponaria* sensu Ell.). Carolina, Alabama, Florida=*Sapindus marginatus* Willd.
- falcata** Raf. Med. Fl. 2:261. 1830, *descr.*; Herb. Raf. 56. 1833, *nom.* Florida=*praec.*

BALSAMINACEAE

- BALSAMINA** Scop.=*Impatiens* Linn.
- ***triflora** Raf. ex M'Murtrie, Sketch. Louisv. 214. 1819, *nom.* Kentucky.

IMPATIENS Linn.

- montana* Raf. Atl. Jour. 1:153. 1832, *descr.* Alleghany Mountains=? *I. biflora* Walt.
 **su[1]phurea* Raf. ex M'Murtrie, Sketch. Louisv. 219. 1819, *nom.* Kentucky. Prob.=*I. pallida* Nutt.
 ***NOLITANGERE** Raf. Herb. Raf. 68. 1833, *nom.*=*Impatiens* Linn.
 **montana* Raf. l.c., *nom.* Alleghany Mountains=*Impatiens montana* Raf.=? *I. biflora* Walt.

RHAMNACEAE

- AFARCA** Raf. Sylva Tellur. 30. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Sageretia* Brongn. (1827).
parviflora Raf. l.c., *descr.* (*Rhamnus minutiflora* Michx.). Southeastern United States=*Sageretia minutiflora* (Michx.) Trelease.
ALATERNUS Mill.=*Rhamnus* Linn.
cordatus Raf. Sylva Tellur. 27. 1838, *descr.* Italy.
glandulosus Raf. ex Jacks*. Ind. Kew. 1:71. 1893 (*Rhamnus glandulosa* Ait.). Canary Islands.
hybridus Raf. ex Jacks*. l.c. (*Rhamnus hybrida* L'Hérit.). Europe.
integrifolius Raf. Sylva Tellur. 27. 1838, *descr.* Spain.
lanceolatus Raf. l.c., *descr.* (*Rhamnus alaternus* Linn.). Southern Europe.
ovatus Raf. l.c., *descr.* (*Rhamnus alaternus* Linn. var. *latifolius* Pers.). Southern Europe.
prinoides Raf. ex Jacks*. l.c. (*Rhamnus prinoides* L'Hérit.). South Africa.
pumilus Raf. ex Jacks*. l.c. (*Rhamnus pumila* Linn.). Europe.
***AMPELOPLIA** Raf. Sylva Tellur. 175. 1838, *nom.*, in indice=seq.
AMPELOPLIS Raf. Sylva Tellur. 33. 1838, *descr.*=*Sageretia* Brongn. (1827).
chinensis Raf. l.c., *descr.* (*Rhamnus theeans* Linn.). South-eastern China=*Sageretia theeans* (Linn.) Brongn.
ATADINUS Raf. Sylva Tellur. 30. 1838, *descr.*=*Rhamnus* Linn.
alpinus Raf. l.c., *nom.* (*Rhamnus alpina* Linn.). Europe, North Africa.
ATULANDRA Raf. Sylva Tellur. 31. 1838, *descr.*=*Rhamnus* Linn.
aragonensis Raf. l.c., *descr.* (*Rhamnus aragonensis* Asso). Northern Spain=*Rhamnus lycioides* Linn.
valentina Raf. l.c., *descr.* (*Rhamnus valentina* Willd.; *Rhamnus pumila* sensu Cav.). Eastern Spain=*Rhamnus* **pumila* Turra, Giorn. Ital. 1:120. 1765.
BERCHEMIA Neck.
repanda Raf. Sylva Tellur. 33. 1838, *descr.* [*Berchemia volubilis* DC.]. Carolina to Louisiana=*Berchemia* **scandens* (Hill) K. Koch, Dendr. 1:602. 1869; Trel. (1889).
undulata Raf. l.c., *descr.* (*Rhamnus volubilis* Linn. f.; *Berchemia volubilis* DC., *Rhamnus scandens* Hill, Hort. Kew. 453. t. 20. 1769). Pennsylvania to Virginia=*Berchemia scandens* (Hill) K. Koch.
BLEPETALON Raf. Sylva Tellur. 30. 1838, *descr.*=*Scutia* Commers. (1827), *nom. conserv.* (*Adolia* Lam., 1783).
aculeatum Raf. l.c., *descr.* (*Rhamnus circumscissa* Linn. f.). India=*Scutia myrtina* (Burm. f.) Kurz (*S. circumscissa* Linn. f.; *S. indica* Brongn.; *S. commersonii* Brongn.).
CANOTHUS Raf. Med. Repos. II. 5:360. 1808, *nom.*, *sphalm.*=*Ceanothus* Linn.
**herbaceus* Raf. l.c., *descr.* Maryland, Virginia, "falls of the Potowmack"=*Ceanothus herbaceus* Raf.=*C. ovatus* Desf.
†**CARDIOLEPIS** Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Neogen. 1. 1825, *descr.* (*Rhamnus lanceolata* Pursh); Sylva Tellur. 28. 1838, *descr.*; Good Book 48. 1840, *nom.* non Wallr. (1822)=*Rhamnus* Linn.
†*nigra* Raf. First Cat. l.c., *nom.*; Neogen l.c., *descr.*, Sylva Tellur. l.c., *descr.*; Herb. Raf. 57. 1833, *nom.* Kentucky=*Rhamnus lanceolata* Pursh.
obtusata Raf. Sylva Tellur. 28. 1838, *descr.* (*Rhamnus alnifolia* sensu Pursh; *Rhamnus purshiana* DC.). Missouri and Oregon=*R. purshiana* DC.
†*rubra* Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Neogen 1. 1825, *descr.*; Herb. Raf. 57. 1833, *nom.*; Sylva Tellur. 28. 1838, *descr.* Kentucky=*Rhamnus lanceolata* Pursh.
†*spinosa* Raf. First Cat. l.c., *nom.*; Neogen l.c., *descr.*; Herb. Raf. l.c., *nom.*; Sylva Tellur. l.c., *descr.* Kentucky.

CEANOTHUS Linn.

- atropurpureus* Raf. New Fl. N. Am. 3:56. 1836 [1838], *descr.* Florida.
**bicolor* Raf. op. cit. 57, *descr.* (*Ceanothus thyrsiflorus* Eschw.). Northwestern United States.
**cordifolius* Raf. Herb. Raf. 63. 1833, *nom.* Kentucky or Illinois.
†*ellipticus* Raf. op. cit. 65, *nom.*; New Fl. N. Am. 3:56. 1836 [1838], *descr.* Appalachian Mountains of Georgia and Alabama.
glandulosus Raf. New Fl. N. Am. 3:57. 1836 [1838], *descr.* (*Ceanothus ovalis* Bigelow; *C. ovatus* hort. ex Lindl.; *C. intermedius* Hook.; *Forrestia thyrsoides* Raf., fide Raf. l.c.). Near Lake Champlain=*C. ovatus* Desf.
glomeratus Raf. op. cit. 55, *descr.* (*C. americanus* sensu Ell.). Virginia to Alabama, Kentucky and Tennessee=*C. americanus* Linn.
var. *fuscatus* Raf. l.c., *descr.*
†*herbaceus* Raf. Jour. Bot. (Paris) 1:227. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:174. 176. 1818, *nom.* (*Ceanothus herbaceus* Raf.; *Ceanothus perennis* Pursh); op. cit. 3:101. 1818, *nom.*, *sphalm.* "herbaceous"; op. cit. 4:191. 1819, *nom.* (*C. perennis* Pursh); Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.* (*C. perennis* Pursh); New Fl. N. Am. 3:55. 1836 [1838], *descr.* (*C. perennis* Pursh). Virginia and Carolina=*Ceanothus americanus* Linn.
latifolius Raf. New Fl. N. Am. 3:55. 1836 [1838], *descr.* (*Ceanothus americanus* Linn. var. *tardiflorus* Eaton, Man. ed. 6, 85. 1833). Western Kentucky and Tennessee=*C. americanus* Linn.
levigatus Raf. l.c., *nom. alt.* *C. herbaceus* Raf. Eastern North America=*C. ovatus* Desf.
officinalis Raf. Med. Fl. 2:205. 1830, *nom.*, *nota* (*C. americanus* Linn.); New Fl. N. Am. 3:54. 1836 [1838], *descr.* (*C. americanus* Linn.). Canada to Alabama and Louisiana=*C. americanus* Linn.
var. *acutus* Raf. l.c., *descr.*
foliosus Raf. op. cit. 55, *descr.*
ovatus Raf. op. cit. 54, *descr.*
paniculatus Raf. op. cit. 55, *descr.*
virgatus Raf. New Fl. N. Am. 3:56. 1836 [1838], *descr.* (*Ceanothus intermedius* Pursh). Virginia to Florida=*C. intermedius* Pursh.
***CENOTHUS** Raf. Med. Repos. II. 5:351. 1808, *nom.*=*Ceanothus* Linn.
DECORIMA Raf. Sylva Tellur. 31. 1838, *descr.*=*Karwinskia* Zucc. (1832).
trinervis Raf. l.c., *descr.* (*Rhamnus trinervis* Cav.). Philippines=*Zizyphus trinervis* (Cav.) Poir.
umbellata Raf. l.c., *descr.* (*Rhamnus umbellata* Cav.). Mexico=*Karwinskia umbellata* (Cav.) Schlecht.
DIPLISCA Raf. Sylva Tellur. 31. 1838, *descr.*=*Colubrina* L. C. Rich. (1827), *nom. conserv.* (*Marcocrella* Neck., 1790; *Tubanthera* Comm. (1825)).
elliptica Raf. l.c., *descr.* (*Rhamnus elliptica* Sw.); *Ceanothus reclinatus* L'Hérit.). West Indies=*Colubrina reclinata* (L'Hérit) Brongn.
†**ENDOTROPIS** Raf. Neogen. 1. 1825, *nom. alt.* *Cardiolepis* Raf.; Sylva Tellur. 31. 1838, *descr.*=*Rhamnus* Linn.
oleifera Raf. ex Jacks*. Ind. Kew. 1:840. 1893, *sphalm.*=seq.
**oleifolia* Raf. Sylva Tellur. 31. 1838, *descr.* (*Rhamnus oleifolia* Hook. Fl. Bor. Am. 1:123. t. 44. 1830) Oregon=*Rhamnus californica* Eschsch.
FORGERUXIA Raf. Sylva Tellur. 32. 1838, *descr.*=*Forgerouxia* Neck.=*Rhamnus* Linn.
**repens* Raf. l.c., *descr.* (*Rhamnus pumila* auct.; *R. rupestris* Scop.). Europe=*Rhamnus rupestris* Scop.
FORGEROUXA Neck.=*Rhamnus* Linn.
repens Raf. ex Jacks*. Ind. Kew. 1:972. 1893 (*Forgeruxia repens* Raf.). Europe=*Rhamnus rupestris* Scop.
FORRESTIA Raf. Med. Repos. II. 3:422. 1806, *descr.*=*Ceanothus* Linn.
**thyrioides* Raf. op. cit. II. 5:351. 1808, *nom.*, *nota*; Jour. Bot. (Paris) 2:168. 1809, *nom.*, *nota*; A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.* New York. Prob.=*Ceanothus americanus* Linn.
**thyroides* Raf. op. cit. II. 3:422. 1806, *nom.* New York. Prob.=*praec.*
†*thyrsoides* Raf. New Fl. N. Am. 3:57. 1836 [1838], *nom.*, *nota*, sub *Ceanothus glandulosus* Raf.=*praec.*

FRANGULA Mill.=*Rhamnus* Linn.
fragilis Raf. Fl. Ludovic. 97. 1817, *descr.* (*Salicaria* Rob. Voy. Louis. 3:493. 1807); Herb. Raf. 53. 1833, *nom.*; Sylva Tellur. 27. 1838, *descr.*; New Fl. N. Am. 3:95. 1836 [1837], Louisiana=*Rhamnus caroliniana* Walt.
**latifolia* Raf. Sylva Tellur. 27. 1838, *nom.* (*Rhamnus latifolia* L'Hérit.). Azores.
**rupestris* Raf. Western Minerva 41. 1821, *nom. nov.* *Rhamnus lanceolata* Pursh. North America.
GIRTANNERIA Raf. Good Book 48. 1840, *nom.*=seq.
GIRTANNERIA Neck.; Raf. Sylva Tellur. 28. 1838, *descr.*=*Rhamnus* Linn.
alnifolia Raf. l.c., *descr.* (*Rhamnus alnifolia* L'Hérit. Sert. Angl. 5. t. 42. 1788). Hudson Bay. and "Missouri."
franguloides Raf. l.c., *descr.* (*Rhamnus franguloides* Michx.). Lake Champlain=*R. alnifolia* L'Hérit.
***GUANIA** Raf. Sylva Tellur. 154. 1838, *nom. sub Ledelia* Raf.; Tul. Ann. Sci. Nat. IV. Bot. 8:129. 1857=*Gouania* Jacq. (1763).
***HETHINGERIA** Raf. Sylva Tellur. 33. 1838, *descr.*, *sphalm.*=*Hettlingeria* Neck.=*Rhamnus* Linn.
***HYPOMA** Raf. New Fl. N. Am. 3:54. 1836 [1838], *nom.*, *nota* (sp. afr. *Ceanothus* [C. africanus Linn.] = *Noltea* Reichb. (1828).
LEDELIA Raf. Sylva Tellur. 154. 1838, *descr.*=*Pomaderris* Labill. (1804).
betulina Raf. l.c., *descr.* (*Pomaderris betulina* A. Cunn.; Hook. Bot. Mag. 60 t. 3212. 1833). Australia.
LITHOPLIS Raf. Sylva Tellur. 32. 1838, *descr.*=*Rhamnus* Linn.
saxatilis Raf. l.c., *nom.* (*Rhamnus saxatilis* Jacq.; *Frangula saxatilis* Cramer). Southern Europe.
MARCORELLA Neck. (1790)=*Colubrina* L. C. Rich. (1827), *nom. conserv.* (*Marcorella* Neck., 1790; *Tubanthera* Comm., 1825).
colubrina Raf. Sylva Tellur. 31. 1838, *nom.* (*Rhamnus colubrina* Jacq.). West Indies=*Colubrina ferruginosa* Brongn.
cubensis Raf. l.c., *nom.* (*Rhamnus cubensis* Jacq.). Cuba=*Colubrina cubensis* (Jacq.) Brongn.
MYSTACINUS Raf. Sylva Tellur. 30. 1838, *descr.*=*Helinus* E. Mey. (1840), *nom. conserv.* (*Mystacinus* Raf., 1838).
cirriferus Raf. l.c., *nom.* (*Rhamnus mystacinus* Ait.). Tropical Africa=*Helinus mystacinus* (Ait.) E. Mey.
OENOPLIA Roem. & Schult. (1819); Raf. Sylva Tellur. 30. 1838, *descr.*=*Oenoplea* Hedw. f. (1806)=*Berchemia* Neck. (1790).
**lineata* Raf. l.c., *descr.* (*Rhamnus lineata* Linn.; *Zizyphus lineata* Willd.). China=*Berchemia lineata* (Linn.) DC.
PERFONON Raf. Sylva Tellur. 29. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Rhamnus* Linn.
ferrugineum Raf. l.c., *descr.* (*Rhamnus ferruginea* Nutt.). Florida=*Colubrina ferruginosa* Brongn.
laurifolium Raf. l.c., *descr.* "Orion [Rocky] Mountains," cult. Philadelphia=*Rhamnus purshiana* DC.
RHAMNUS Linn.
**rupestris* Raf. Herb. Raf. 58. 1833, *nom.* Alleghany Mountains.
**theizans* Raf. Sylva Tellur. 33. 1838, *nom.*, *sphalm.*=*R. theezans* Linn.=*Sageretia theezans* (Linn.) Brongn. China.
SARCOMPHALUS P. Browne; Raf. Sylva Tellur. 29. 1838, *descr.*
carolinianus Raf. op. cit. 29 l.c., *nom.* (*Rhamnus caroliniana* Walt.). Southeastern United States=*Rhamnus caroliniana* Walt.
grecus Raf. op. cit. 30, *descr.* (*Rhamnus pubescens* Sibth. & Sm. Fl. Graec. 3:33. t. 239. 1819). Greece=*Rhamnus sibthorpiana* Roem. & Schult.
levigatus Raf. op. cit. 29 *nom.* (*Rhamnus laevigata* Vahl). West Indies=*Reynosa laevigata* (Vahl) Sarg.
mauritanus Raf. l.c., *nom.* (*Rhamnus mauritania* Soyer-Willem.). Tropical Asia=*Zizyphus mauritiana* Lam. (*Z. jujuba* Lam., 1789, non Mill., 1768).
prunifolius Raf. l.c., *nom.* (*Rhamnus prunifolia* Sibth. & Sm.). Greece.
retusus Raf. l.c., *nom.* (*Rhamnus sarcomphalus* Linn.). West Indies (*Sarcomphalus laurinus* Griseb., 1864).
shortianus Raf. l.c., *descr.* (*Rhamnus shortii* Nutt.). Kentucky=*Rhamnus lanceolata* Pursh.
***TRICHROA** Raf. Herb. Raf. 51. 1833, *nom.*, *nota*, aff. *Cardioplepis* Raf.=*Rhamnus* Linn.
**laurifolia* Raf. l.c., *nom.* Rocky Mountains or Oregon.

TUBANTHERA Comm.; Raf. Sylva Tellur. 154. 1838, *descr.*=*Colubrina* L. C. Rich. (1827), *nom. conserv.* (*Marcorella* Neck.; 1790; *Tubanthera* Comm., 1825).
katapa Raf. l.c., *descr.* (*Katapa* Rheede, Hort. Malabar. 5:93. t. 47. 1685). India=*Colubrina asiatica* (Linn.) Brongn.

VITACEAE

#AGLOBULIA Raf. Med. Fl. 2:134. 1830, *descr.*, iter. Am. Man. Grape Vines 18. 1830, sect. *Vitis* Linn. (Type *Vitis virginiana* Poir.)=*Vitis* Linn.
ALLOSAMPELA Raf. Med. Fl. 2:122. 1830, *descr.*, iter. Am. Man. Grape Vines 6. 1830; Sylva Tellur. 88. 1838, *descr.*=*Ampelopsis* Michx. (1803).
heterophylla Raf. Sylva Tellur. l.c., *descr.* (*Vitis heterophylla* Thunb.). Japan=*Ampelopsis heterophylla* Sieb. & Zucc., non Blume=A. brevipedunculata (Max.) Koehne var. *maximowiczii* (Regel) Rehder.
AMPELOPSIS Michx.
cordifolia Raf. Med. Fl. 2:122. 1830, *nom.*; Am. Man. Grape Vines 6. 1830, *nom.*; Sylva Tellur. 88. 1838, *nom.* [*Ampelopsis cordata* Michx.]. Virginia to Nebraska, Florida and Texas=*Ampelopsis cordata* Michx.
CAUSONIA Raf. Sylva Tellur. 87. 1838, *descr.*=*Cayratia* Juss. (1818), *nom. conserv.* (*Columella* Lour., 1790; *Lagenula* Lour., 1790 [*Causonis* Raf., 1830; *Causonia* Raf., 1838; *Pedastis* Raf., 1838]).
**japonica* Raf. l.c., *nom.* (*Vitis japonica* Thunb.; *Cissus japonica* Willd.). Japan=*Cayratia japonica* (Thunb.) Gagnep.
CAUSONIS Raf. Med. Fl. 2:122. 1830, *descr.*, iter. Am. Man. Grape Vines 6. 1830=*Causonia* Raf. (1838)=*Cayratia* Juss. (1818), *nom. conserv.* (*Columella* Lour., 1790; *Lagenula* Lour., 1790).
japonica Raf. ex Jacks*. Ind. Kew. 1:463. 1893 (*Vitis japonica* Thunb.). Japan=*Cayratia japonica* (Thunb.) Gagnep.
trifolia Raf. ex Jacks*. l.c. (*Vitis trifolia* Linn.). India=*Cayratia trifolia* (Linn.) Domin.
#FRONDARANIA Raf. Med. Fl. 2:124. 1830, *descr.*, iter. Am. Man. Grape Vines 8. 1830, series *Vitis* Linn. (Type *Vitis fulva* Raf.)=*Vitis* Linn.
GONOLOMA Raf. Sylva Tellur. 86. 1838, *descr.*=*Cissus* Linn. *alata* Raf. l.c., *nom.* (*Cissus trifoliata* sensu Jacq. [C. *alata* Lam.]). Tropical America=*Cissus rhombifolia* Vahl.
#HYPOLEIA Raf. Med. Fl. 2:132. 1830, *descr.*; Am. Man. Grape Vines 16. 1830, *descr.*, sect. *Vitis* Linn. (Type *Vitis odoratissima* Donn.)=*Vitis* Linn.
IRSIOLA P. Browne; Raf. Sylva Tellur. 86. 1838, *descr.*=*Cissus* Linn.
sicyoides Raf. l.c., *nom.* (*Cissus sicyoides* Linn.). Tropical America.
KEMOXIS Raf. Sylva Tellur. 86. 1838, *descr.*=*Cissus* Linn. *acida* Raf. l.c., *nom.* (*Cissus acida* Linn.). West Indies.
#LASIPIA Raf. Med. Fl. 2:129. 1830, *descr.*, iter. Am. Man. Grape Vines 13. 1830, series *Vitis* Linn. (Type *Vitis dimidiata* Raf.)=*Vitis* Linn.
***LEANIA** Raf. Fl. Tellur. 1:86. 1836 [1837], *nom. nov.* *Leea* Stokes (*Leea* Linn.)=*Leea* Linn.
LEEANIA Raf. Princ. Somiol. 30. 1814, *nom. nov.* *Leea* Linn.
NEKEMIAS Raf. Sylva Tellur. 87. 1838, *descr.*=*Ampelopsis* Michx. (1803).
bipinnata Raf. l.c., *descr.* (*Hedera bipinnata* Walt.; *Ampelopsis bipinnata* Michx.; *Cissus bipinnata* Ell.; *Cissus stans* Pers.; *Vitis arborea* Linn.). Carolina to Louisiana=*Ampelopsis arborea* (Linn.) Koehne (1893); Rusby (1894).
PEDASTIS Raf. Sylva Tellur. 87. 1838, *descr.*=*Cayratia* Juss. (1818), *nom. conserv.* (*Columella* Lour., 1790; *Lagenula* Lour., 1790).
indica Raf. l.c., *nom.* (*Cissus pedata* Lam.). India=*Cayratia pedata* (Lam.) Gagnep.
QUINARIA Raf. Med. Fl. 2:122. 1830, *descr.*; op. cit. 256, *nom.*, *nota*; Am. Man. Grape Vines 6. 1830, *descr.*; Loud. Gard. Mag. 8:246. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 69. 1833, iter. Britten, Jour. Bot. 38: 226. 1900; Sylva Tellur. 87. 1838, *descr.*, non *Quinaria* Lour. (1790)=*Parthenocissus* Planch. (1887), *nom. conserv.* (*Psedera* Neck. 1790; *Quinaria* Raf., 1830).

QUINARIA (continued).

hederacea Raf. Med. Fl. 2:122. 1830, *nom.* (*Ampelopsis quinquefolia* Michx.), *op. cit.* 256, *nom.*, *nota*; Am. Man. Grape Vines 6. 1830, *nom.*; Sylva Tellur. 87. 1838, *nom.* (*Hedera quinquefolia* Linn.; *Vitis quinquefolia* Lam.; *Ampelopsis quinquefolia* Michx.). Eastern North America = *Parthenocissus quinquefolia* (Linn.) Planch.

hirsuta Raf. Med. Fl. 2:122. 1830, *nom.*; Am. Man. Grape Vines 6. 1830, *nom.*; Sylva Tellur. 87. 1838, *nom.* (*Hedera quinquefolia* Linn.; *Vitis quinquefolia* Lam.; *Cissus quinquefolia* Desf. "var."). Eastern North America = *Parthenocissus quinquefolia* (Linn.) Planch, var. *hirsuta* (Pursh) Planch.

japonica Raf. Sylva Tellur. 87. 1838, *nom.* (*Vitis pentaphylla* Thunb.). Japan = *Gynostemma pentaphyllum* (Thunb.) Makino (Cucurbitaceae).

RINXOSTYLIS Raf. Sylva Tellur. 87. 1838, *descr.* = *Cissus* Linn.

repanda Raf. l.c., *nom.* (*Cissus repanda* Vahl). India.

*SOELANTHUS Raf. Sylva Tellur. 86. 1838, *nom.* = *Saelanthus* Forsk. = *Cissus* Linn.

*rotundifolius Raf. *op. cit.* 87, *nom.* (*Saelanthus rotundifolius* Forsk.). Arabia = *Cissus rotundifolius* (Forsk.) Vahl.

*tetragonus Raf. l.c., *nom.* [*Saelanthus quadrangulus* Forsk.]. Arabia = *Cissus quadrangularis* Linn.

VITIS Linn.

acerifolia Raf. Med. Fl. 2:130. t. 99. f. C. 1830, *descr.*, *iter.* Am. Man. Grape Vines 14. f. C. 1830. "Oregon mountains" [Rocky Mountains or near them, Long expedition]. (*Vitis longii* Prince, 1830); see Rehder, Jour. Arnold Arb. 27:172. 1946.

amara Raf. *op. cit.* 132; 16, *descr.* Pennsylvania, near Philadelphia. Arkansas and Texas = *V. rotundifolia* Michx.

apiana Raf. *op. cit.* 140; 24, *descr.* Europe = *Vitis vinifera* Linn.

var. *alba* Raf. ll.cc., *nom.*

parvifolia Raf. ll.cc., *nom.*

rosea Raf. ll.cc., *nom.*

*arachnoidea Raf. Am. Monthly Mag. Crit. Rev. 2:122. 1817, *nom.* New York.

bicolor Raf. Med. Fl. 2:140. 1830, *descr.*, *iter.* Am. Man. Grape Vines 24. 1830. Europe = *Vitis vinifera* Linn.

bifida Raf. *op. cit.* 128; 12, *descr.* Pennsylvania to Kentucky. blanda Raf. ll.cc. t. 100 f. H.; 12. f. H. Pennsylvania to Louisiana.

var. *arenaria* Raf. *op. cit.* 129; 13, *descr.* Louisiana, Arkansas.

caroliniana Raf. ll.cc., *nom.* Carolina.

flava Raf. ll.cc., *descr.*

heteroloba Raf. ll.cc., *descr.* Ohio.

viridis Raf. ll.cc. New York.

bracteata Raf. *op. cit.* 125; 9, *descr.* (*Vitis labrusca* sensu Walt.; *V. aestivalis* sensu Ell.). Carolina to Florida.

callosa Raf. ll.cc., *descr.* Canada to Pennsylvania.

cana Raf. *op. cit.* 140; 24, *descr.* Europe = *Vitis vinifera* Linn.

canina Raf. *op. cit.* 127; 11, *descr.* Pennsylvania to Virginia = *V. labrusca* Linn.

ciliata Raf. *op. cit.* 129. t. 100. f. E.; 13. f. E., *descr.* New Jersey.

columbina Raf. *op. cit.* 131; 15, *descr.* New York to Louisiana.

concolor Raf. *op. cit.* 130; 14, *descr.* New York to Missouri.

corinthiaca Raf. *op. cit.* 141; 25, *descr.* Greece = *Vitis vinifera* Linn.

cylindrica Raf. ll.cc., 141; 25, *descr.* Europe = *Vitis vinifera* Linn.

var. *incurva* Raf. ll.cc., *descr.*

†denticulata Raf. Am. Monthly Mag. Crit. Rev. 2:123. 1817, *nom.*; Ann. Nat. Ann. Synop. 11. 1820, *descr.* New York.

digitata Raf. Med. Fl. 2:125. 1830, *descr.*, *iter.* Am. Man. Grape Vines 9. 1830. Virginia, Carolina.

dimidiata Raf. *op. cit.* 129; 13, *descr.* Pennsylvania to Louisiana.

*estivalis Raf. *op. cit.* 125; 9, *nom.* in syn. = *Vitis aestivalis* Michx.

farinosa Raf. *op. cit.* 140; 24, *descr.* Europe = *Vitis vinifera* Linn.

ferruginea Raf. *op. cit.* 128; 12, *descr.* Pennsylvania to Kentucky.

floridana Raf. *op. cit.* 133; 17, *nom. alt.* *Vitis peltata* Raf.

*fragrans Raf. Am. Monthly Mag. Crit. Rev. 2:122. 1817, *nom.* New York.

fulva Raf. Med. Fl. 2:124. 1830, *descr.*, *iter.* Am. Man. Grape Vines 8. 1830. Canada to Virginia.

var. *corallina* Raf. ll.cc., *descr.* Virginia.

quinqueloba Raf. ll.cc., *descr.*

sinuata Raf. ll.cc., *descr.*

glareosa Raf. *op. cit.* 126; 10, *descr.* Illinois to Florida.

glomerata Raf. *op. cit.* 142; 26, *descr.* Cuba, Hayti.

†hyemalis Raf. Am. Monthly Mag. Crit. Rev. 2:122. 1817, *nom.* (*sphalm. hyematis*); Med. Fl. 2:125. 1830, *descr.*, *iter.* Am. Man. Grape Vines 9. 1830. Canada to Virginia and Ohio.

integrifolia Raf. Fl. Ludovic. 89. 1817, *descr.* (*Vitis* Rob. Voy. Louis. 3:476. 1807); Med. Fl. 2:134. 1830, *descr.*, *iter.* Am. Man. Grape Vines 18. 1830. Louisiana.

labruscoides Muhl. Cat. 27. 1813, *nom.*; Raf. Med. Fl. 2:127. 1830, *descr.*, *iter.* Am. Man. Grape Vines 11. 1830. New York to Virginia.

var. *major* Raf. ll.cc., *descr.* New York.

precox Raf. ll.cc., *descr.* Virginia.

pulposa Raf. ll.cc., *descr.*

serotina Raf. ll.cc., *descr.*

laciniosa Linn.; Raf. *op. cit.* 141; 25, *descr.* Europe = *Vitis vinifera* Linn.

var. *dissecta* Raf. ll.cc., *nom.*

grandifolia Raf. ll.cc., *nom.*

latifolia Raf. *op. cit.* 126; 10, *descr.* Canada to Florida and Louisiana = *V. labrusca* Linn.

var. *alba* Raf. ll.cc., *descr.*

nigra Raf. ll.cc., *descr.*

pruniformis Raf. ll.cc., *descr.*

rubra Raf. ll.cc., *descr.*

*lobata Raf. Am. Monthly Mag. Crit. Rev. 2:122. 1817, *nom.* New York.

longifolia Raf. Med. Fl. 2:129. t. 99. f. B. 1830, *descr.*, *iter.* Am. Man. Grape Vines 13. f. B. 1830. Arkansas and Texas.

luteola Raf. *op. cit.* 127; 11, *descr.* Pennsylvania = *V. labrusca* Linn.

maritima Raf. *op. cit.* 142; 26, *descr.* Jamaica, Yucatan.

maura Raf. *op. cit.* 141; 25, *descr.* North Africa = *Vitis vinifera* Linn.

*membranacea Raf. Am. Monthly Mag. Crit. Rev. 2:123. 1817, *nom.* New York.

montana Raf. Med. Fl. 2:130. 1830, *descr.*, *iter.* Am. Man. Grape Vines 14. 1830. Alleghany Mountains, New York to Carolina.

*mucronata Raf. Am. Monthly Mag. Crit. Rev. 2:123. 1817, *nom.* New York.

*multiflora Raf. Med. Fl. 2: t. 100. f. G, *sphalm.* = seq.

multiloba Raf. Med. Fl. 2:125. 1830, *descr.*, *iter.* Am. Man. Grape Vines f. G. Red River, Arkansas-Louisiana, cult., Philadelphia.

muscadina Raf. *op. cit.* 132; *descr.*, *nom. nov.* *Vitis vulpina* Linn. (*Vitis incisa* Jacq.; *V. rotundifolia* Michx.).

Virginia to Florida and Texas = *V. rotundifolia* Michx.

obliqua Raf. *op. cit.* 128; 12, *descr.* Arkansas River and the Rocky Mountains.

obovata Raf. *op. cit.* 135; 19, *descr.* Pennsylvania to Virginia.

var. *nigra* Raf. ll.cc., *descr.*

pallida Raf. ll.cc., *descr.*

prunoides Raf. ll.cc., *descr.*

rupestris Raf. ll.cc., *descr.*

odoratissima Donn

var. *alba* Raf. *op. cit.* 132; 16, *descr.* New York.

atropurpurea Raf. ll.cc., *descr.* Ohio River.

nigra Raf. ll.cc., *descr.* Ohio.

purpurea Raf. ll.cc., *descr.* Ohio.

peltata Raf. *op. cit.* 133; 17, *descr.* Florida.

*poiretia Raf. *op. cit.* 134; 18, *descr.* (*Vitis vulpina* sensu Poiret) [North America].

poiretiana Raf. ex Jacks*. Ind. Kew. 2:1217. 1895 = *praec.*

populifolia Raf. *op. cit.* 131; 15, *descr.* Pennsylvania.

prolifera Raf. *op. cit.* 134, t. 100. f. F.; 18. f. F. 1830, *descr.* Pennsylvania to Carolina and Ohio.

var. *catabiana* Raf. *op. cit.* 135; 19, *descr.* North Carolina.

isabella Raf. ll.cc., *descr.* North Carolina.

media Raf. ll.cc., *nom.*, *nota.*

ohiensis Raf. ll.cc., *nom.*, *nota.* Ohio.

prunoides Raf. ll.cc., *nom.*

- punctata* Raf. op. cit. 140; 24, *descr.* Europe=*Vitis vinifera* Linn.
riparia Michx. Eastern North America.
 var. *purpurea* Raf. op. cit. 132; 16, *descr.*
viridis Raf. Il.cc., *descr.*
rufa Raf. op. cit. 140; 24, *descr.* Europe=*Vitis vinifera* Linn.
rugosa Raf. op. cit. 127; 11, *descr.* New York to Ohio.
saccharina Raf. op. cit. 140; 24, *descr.* Europe=*Vitis vinifera* Linn.
saxatilis Raf. op. cit. 124. t. 99. f. A; 8. f. A, *descr.* Arkansas and Texas.
 var. *blandina* Raf. op. cit. 125; 9, *descr.*
longipes Raf. Il.cc., *descr.*
media Raf. Il.cc., *descr.*
serotina Raf. op. cit. 126; 10, *descr.* Ohio and Kentucky to Missouri.
 var. *micracina* Raf. Il.cc., *nom.*
repens Raf. Il.cc., *nom.*
sanguinaria Raf. Il.cc., *descr.*
succinea Raf. op. cit. 140; 24, *descr.* Europe=*Vitis vinifera* Linn.
turbinata Raf. Il.cc., *descr.* Europe=*Vitis vinifera* Linn.
 var. *alba* Raf. Il.cc., *nom.*
cerulea Raf. Il.cc., *nom.*
heterophylla Raf. Il.cc., *nom.*
prolifera Raf. Il.cc., *nom.*
repens Raf. Il.cc., *nom.*
triloba Raf. Il.cc., *nom.*
verrucosa Raf. op. cit. 133; 17, *descr.* Carolina to Arkansas=*V. rotundifolia* Michx.
vinifera Linn.; Raf. op. cit. 136; 20, *descr.* Europe.
 var. *acetaria* Raf. op. cit. 138; 22, *descr.*
aurea Raf. op. cit. 137; 21, *descr.*
burgundica Raf. op. cit. 136; 20, *descr.*
crassifolia Raf. op. cit. 138; 22, *descr.*
cuprea Raf. Il.cc., *descr.*
dulcis Raf. Il.cc., *descr.*
edulis Raf. op. cit. 136; 20, *descr.*
felina Raf. op. cit. 138; 22, *descr.*
greca Raf. op. cit. 137; 21, *descr.*
laxa Raf. op. cit. 139; 23, *descr.*
malvagia Raf. Il.cc., *descr.*
malvesia Raf. op. cit. 137; 21, *descr.*
moschata Raf. Il.cc., *descr.*
nigraria Raf. Il.cc., *descr.*
oportu Raf. op. cit. 138; 22, *descr.*
perla Raf. Il.cc., *descr.*
precox Raf. op. cit. 136; 20, *descr.*
prolifera Raf. op. cit. 139; 23, *descr.*
syriaca Raf. Il.cc., *descr.*
tinctoria Raf. op. cit. 138; 22, *descr.*
tinto Raf. Il.cc., *descr.*
velutina Raf. Il.cc., *descr.*
versicolor Raf. op. cit. 137; 21, *descr.*
violacea Raf. Il.cc., *descr.*
zibila Raf. Il.cc., *descr.*

ELAEOCARPACEAE

- AYPARIA** Raf. Sylva Tellur. 154. 1838, *descr.*=*Elaeocarpus* Linn.
crenata Raf. l.c., *descr.* (*Ayparhus* Rumph. [i.e. *Eyparehu*, *Arbor rediiva* Rumph.] Herb. Amb. 3:165. t. 104. 1743).
 Moluccas=*Elaeocarpus rumphii* Merr. Interpret. Rumph. Herb. Amb. 349. 1917=*Elaeocarpus crenatus* (Raf.) Merr. Jour. Arnold Arb. 29:212. 1948.
ELAEOCARPUS Linn.
 **monoceros* Raf. Sylva Tellur. 59. 1838, *nom.*=*E. monocera* Cav. Philippines.
 **monogynus* Raf. l.c., *nom. nov. praec.*
 ***GANITRUM** Raf. Sylva Tellur. 59. 1838, *descr.*=*Elaeocarpus* Linn.
 **obtusum* Raf. l.c., *descr.* (*Elaeocarpus integrifolius* Lam., "Rumf. 3. 192," recte Rumph. Herb. Amb. 3:163. t. 102. 1743). "Molucas and Mauritius"=? *Elaeocarpus oblongus* Gaertn. et quoad Mauritius, *Elaeocarpus integrifolius* Lam.; see Merr. Interpret. Rumph. Herb. Amb. 352. 1917.
GANITRUS Gaertn.=*Elaeocarpus* Linn.
obtusum Raf. ex Jacks*. Ind. Kew. 1:997. 1893=*Ganitrum obtusum* Raf.=? *Elaeocarpus oblongus* Gaertn. et *E. integrifolius* Linn.

- MISIPUS** Raf. Sylva Tellur. 60. 1838, *descr.*=*Elaeocarpus* Linn.
serratus Raf. l.c., *descr.* (*Dicera serrata* Forst.; *Elaeocarpus dicera* Vahl). New Zealand=*Elaeocarpus dentatus* (Forst.) Vahl.
PERINKA Raf. Sylva Tellur. 60. 1838, *descr.*=*Elaeocarpus* Linn.
grandiflora Raf. l.c., *nom.* (*Elaeocarpus grandiflorus* Sm.). Australia.
reticulata Raf. l.c., *nom.* (*Elaeocarpus reticulatus* Sm.). Australia.
SKIDANTHERA Raf. Sylva Tellur. 60. 1838, *descr.*, *nom. nov.* *Dicera* Forst.=*Elaeocarpus* Linn.
dentata Raf. l.c., *nom.* (*Dicera dentata* Forst.; *Elaeocarpus dentatus* Vahl). New Zealand=*Elaeocarpus dentatus* (Forst.) Vahl.

TILIACEAE

- #**FILURA** Raf. Alsogr. Am. 44. 1838, *nom.*, *nota*, subgen. *Tilia* Linn.=*Tilia* Linn.
 #**NEPARA** Raf. Alsogr. Am. 44. 1838, *descr.*, subgen. *Tilia* Linn. (Type *Tilia europaea* Linn.)=*Tilia* Linn.
TILIA Linn.
cinerea Raf. Alsogr. Am. 46. 1838, *descr.*; Aut. Bot. 143. 1840, *nom.* Kentucky and Alabama.
crenata Raf. op. cit. 44, *descr.*; Aut. Bot. l.c., *nom.* Rocky Mountains (Lewis & Clark).
fulva Raf. op. cit. 45, *descr.*; Aut. Bot. l.c., *nom.* Ohio River.
fuscata Raf. Il.cc., *descr.*, *nom.* Alleghany Mountains of Virginia.
glauca Raf. Il.cc., *descr.*, *nom.* Alleghany Mountains.
longifolia Raf. op. cit. 44, *descr.*; Aut. Bot. l.c., *nom.* Arkansas.
riparia Raf. op. cit. 45, *descr.*; Aut. Bot. l.c., *nom.* Canada to Virginia.
stenopetala Raf. Fl. Ludovic. 92. 1817, *descr.* (*Tilleul de la Louisiane* Rob. Trav. Louis. 3:484. 1807); Med. Fl. 2:268. 1830, *nom.*; New Fl. N. Am. 4:95. 1836, *nom.*; Alsogr. Am. 46. 1838, *descr.* Louisiana=? *Tilia americana* Linn.
umbellata Raf. Alsogr. Am. 46. 1838, *descr.*; Aut. Bot. 143. 1840, *nom.* Alleghany Mountains.
TRIDERMIA Raf. Sylva Tellur. 145. 1838, *descr.*=*Grewia* Linn.
papillosa Raf. l.c., *descr.* (*Grewia echinulata* Delile, Cent. Pl. Méroë 82. 1826 (Caill. Voy. Méroë 4:372. 1827). Nubia =*Grewia villosa* Willd.

MALVACEAE

- ABUTILON** Adans.
decarpum Raf. New Fl. N. Am. 1:40. 1836, *descr.* (*Sida abutiloides* Jacq.; *Lavatera americana* Linn.). Southern Florida=*Abutilon abutiloides* (Jacq.) K. Schum, quoad syn. Jacq.
 **mollissimum* Raf. op. cit. 39, *descr.* (*Sida abutilon* Linn.). North America=*Abutilon theophrasti* Medic. (1787). (*A. avicennae* Gaertn., 1791).
 var. *palustre* Raf. op. cit. 40, *descr.* Carolina.
ruderales Raf. l.c., *descr.* New England to Kentucky.
uniflorum Raf. l.c., *descr.*
ACHANIA Sw.; Raf. Fl. Tellur. 1:84. 1836 [1837]=*Malvaviscus* Adans. (1763).
floridana Raf. New Fl. N. Am. 1:49. 1836, *descr.* (*Malvaviscus floridanus* Nutt.) Florida.
 ***AIGOSPLEN** Raf. Good Book 62. 1840, *nom. nov.* Callirhoë Nutt.=*Nuttallia* Barton (1822)=*Callirhoë* Nutt. (1821).
ALCEA Linn.=*Althaea* Linn.
 **filifolia* Raf. Med. Repos. III. 2:341. 1808, *nom.*, *sphalm.*=*A. ficifolia* Linn.
ANODA Cav.
 **dentifolia* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains, Oregon or New Mexico.
 ***CALIRHOË** Raf. Fl. Tellur. 1:89. 1836 [1837], *nom.*; Good Book 62. 1840, *nom.*=*Callirhoë* Nutt. (1821).
 ***DIADESMA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, *nom. nov.* *Modiola* "DC." [Moench], iter. Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.*; Raf. New Fl. N. Am. 1:41. 1836, *nom.*, *nota*, non Raf. (1836)=*Modiola* Moench (1794).

- DIADESMA** Raf. New Fl. N. Am. 1:41. 1836, *nom., nota*=*Sida* Linn.
cardanisea Raf. ex Jacks*. Ind. Kew. 1:741. 1893 (*Sida cardanisea* Raf.). Louisiana.
rhombifolia Raf. ex Jacks*. l.c. (*Sida rhombifolia* Linn.). Pan-tropic.
stellata Raf. ex Jacks*. l.c. (*Sida stellata* Torr.). North America=*Sphaeralcea stellata* Torr.=*S. angustifolia* (Cav.) G. Don.
virgata Raf. ex Jacks*. l.c. (*Sida virgata* Hook.). Australia.
***DIPLANOMA** Raf. Herb. Raf. 80. 1833, *nom. subnud.*, *nota* (*Hibiscus manihot* Linn.); Sylva Tellur. 115. 1838, *nom.*, sub *Munchusia* Raf.=*Abelmoschus* Medic. (1787).
**digitata* Raf. Herb. Raf. 79. 1833, *nom.* Florida or Alabama.
GOSSYPIUM Linn.²²
albescens Raf. Sylva Tellur. 18. 1838, *descr.*; Prok. Jour. Bot. URSS 32:74. 1947. Cult.
 var. *cayanense* Raf. l.c., *descr.*; Prok. l.c. Cayenne.
 megasperma Raf. l.c., *descr.*
 rubescens Raf. l.c., *descr.*; Prok. l.c.
amblosperrum Raf. op. cit. 17, *descr.* West Indies.
asiaticum Raf. op. cit. 16, *descr.* Asia.
aureum Raf. op. cit. 19, *nom. subnud.* Africa.
bicolor Raf. op. cit. 18, *descr.* Trinidad.
cambayense Raf. l.c., *descr.*; Prok. Jour. Bot. URSS 32:70. 1947. India.
cinereum Raf. op. cit. 17, *descr.* ? South America.
convexum Raf. op. cit. 16, *descr.* Santa Marta.
cunninghamii Raf. ex Jacks*. Ind. Kew. 1:1057. 1893. Quid ?
decurrens Raf. Sylva Tellur. 15. 1838, *descr.*
 var. *floosum* Raf. l.c., *descr.*
 patulum Raf. l.c., *descr.*
 rubrum Raf. l.c., *descr.*
 viridis Raf. l.c., *descr.*
divaricatum Raf. op. cit. 17, *descr.* Hayti.
fuscum Raf. op. cit. 16, *descr.* Asia.
guyanense Raf. l.c., *descr.* Guiana, Brazil.
 var. *braziliense* Raf. l.c., *descr.*=*G. peruvianum* Cav.
 var. *braziliense* (Raf.) Prok. Jour. Bot. URSS 32:77. 1947.
 verum Raf. l.c., *descr.*; Prok. l.c.
herbaceum Linn.; Raf. op. cit. 15, *descr.*
 var. *barbatum* Raf. l.c., *descr.*
 megacarpum Raf. l.c., *descr.*
 perenne Raf. op. cit. 16, *descr.*
 vulgare Raf. op. cit. 15, *descr.*
isabelum Raf. op. cit. 18, *descr.* Asia.
macrosperrum Raf. op. cit. 15, *descr.* West Indies.
nankin Raf. op. cit. 19, *nom. subnud.* China. Prob.=*G. nanking* Meyen (1835).
niveum Raf. op. cit. 15, *descr.* West Indies.
pallens Raf. op. cit. 16, *descr.* Asia.
purpureum Raf. op. cit. 18, *descr.* West Indies, South America.
rohrianum Raf. op. cit. 19, *descr.* Porto Rico.
rupestre Raf. op. cit. 17, *descr.* Curaçao.
sarmentosum Raf. l.c., *descr.* Africa.
speciosum Raf. op. cit. 18, *descr.*; Prok. Jour. Bot. URSS 32:67. 1947. India.
teleium Raf. op. cit. 17, *descr.* Hab.?
tenax Raf. op. cit. 16, *descr.* West Indies.
trichospermum Raf. op. cit. 17, *descr.* South America.
virens Raf. op. cit. 15, *descr.* Martinique.
virgatum Raf. op. cit. 14, *descr.* West Indies.
HIBISCUS Linn.
**corymbosus* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
**croceus* Raf. Med. Fl. 2:228. 1830, *nom.* [Eastern United States].
**pallidus* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:135. 1878, *nom.*=*Hibiscus trionum* Linn. fide Watson, l.c.
#KARPAS Raf. Sylva Tellur. 14. 1838, *descr.* subgen. *Gossypium* Linn. (Type, *Gossypium herbaceum* Linn.)=*Gossypium* Linn. subgen. *Karpas* (Raf.) Prok. Jour. Bot. URSS 32:72. 1947.
#LANIGERUM Raf. Sylva Tellur. 14. 1838, *descr.* subgen. *Gossypium* Linn.=*praec.*

- #LEIOFAIUM** Raf. Sylva Tellur. 14. 1838, *descr.* subgen. *Gossypium* Linn.=*praec.*
MALOPE Linn.
lutea Raf. Atl. Jour. 1:147. 1832, *descr.* (*Malope malacoides* auct. Am.); Good Book 43. 1840, *nom., nota.* North America.
MALVA Linn.
**cupaniana* Raf. Specch. Sci. 2:172. 1814, *descr.* Sicily.
pedunculata Raf. Car. Nuov. Gen. Sp. Sicil. 76. t. 19. f. 1. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.* Sicily.
scandens Raf. Atl. Jour. 1:147. 1832, *descr.* Florida, Louisiana.
**zanthenia* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
MONOLIX Raf. First Cat. Gard. Transylv. Univ. 14. 1824, *nom. nov.* *Callirhoë* Nutt. (1821).
digitata Raf. l.c., *nom.* (*Callirhoë digitata* Nutt.). Kentucky.
MUNCHUSIA Raf. Sylva Tellur. 115. 1838, *descr.*=*Hibiscus* Linn.
tomentosa Raf. l.c., *descr.* (*Hibiscus clypeatus* Linn.). Jamaica.
NAPEA Crantz=*Napaea* Linn.
**tomentosa* Raf. Life of Travels 138. 1836, *nom.* Pennsylvania.
SIDA Linn.
cardanisea Raf. Fl. Ludovic. 90. 1817, *descr.* (*Sida* 1, Rob. Voy. Louis. 3:480. 1807). Louisiana.
bicallosa Raf. op. cit. 91, *descr.* (*Sida* 2, Rob. l.c.); New Fl. N. Am. 1:41. 1836, *nom.* Louisiana.
TRIONUM Linn.=*Hibiscus* Linn.
**sulfureum* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.

BOMBACACEAE

- ADANSONIA** Linn.
integrifolia Raf. Sylva Tellur. 149. 1838, *descr.* (*Ophelus [sitularius]* Lour.). East Africa=*Adansonia digitata* Linn.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):262. 1935.
**ZEIBA* Raf. Fl. Tellur. 1:29. 1836 [1837], *nom.* [*Ceiba* Linn.].

STERCULIACEAE

- ALICTERES** Neck.=*Helicteres* Linn.
**fetida* Raf. Sylva Tellur. 75. 1838, *nom.* (*Helicteres carthagenensis* Jacq.). Venezuela.
ANISORA Raf. Sylva Tellur. 74. 1838, *descr.*=*Helicteres* Linn.
angulata Raf. l.c., *descr.* (*Helicteres arbor*, ind. occident. Plukenet, Phytogr. t. 245. f. 3. 1720). West Indies=*Helicteres jamaicensis* Linn.
murri Raf. l.c., *descr.* (*Isora-Murri* Rheede, Hort. Malabar. 6:55. t. 30. 1686). India=*Helicteres isora* Linn.
ANTIPHYLA Raf. New Fl. N. Am. 4:16. 1836 [1838], *nom. alt.* *Riddelia* Raf.; Aut. Bot. 5. 1840, *nom.*=*Melochia* Linn.
serrata Raf. New Fl. l.c., *nom. alt.* *Riddelia antiphyla* Raf. Louisiana=*Melochia hirsuta* Cav.
BALANGHAS [Burm.] Raf. Sylva Tellur. 72. 1828, *descr.*; op. cit. 73, *nom., nota*=*Sterculia* Linn.
rubiginosa Raf. l.c., *nom.* (*Sterculia rubiginosa* Vent.). Malaysia.
telabo Raf. l.c., *nom.* (*Sterculia balanghas* Linn.). Tropical Asia.
BRAXIPIS Raf. Sylva Tellur. 72. 1838, *descr.*=*Cola* Schott & Endl. (1832), *nom. conserv.* (*Bichea* Stokes, 1812; *Edwardia* Raf., 1814; *Lunanea* DC., 1825).
grandiflora Raf. l.c., *descr.* (*Sterculia [grandiflora]* Vent.). Africa=*Cola grandiflora* (Vent.) Schott & Endl.
nitida Raf. op. cit. 73, *descr.* (*Sterculia nitida* Vitm.). East Africa=*Cola nitida* (Vent.) A. Chevalier.
CAMAION Raf. Sylva Tellur. 75. 1838, *descr.*=*Helicteres* Linn.
hirsuta Raf. l.c., *descr.* (*Helicteres hirsuta* Lour.). Indo-China (Annam)=*Helicteres hirsuta* Lour.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):264. 1935.
undulata Raf. l.c., *descr.* (*Helicteres undulata* Lour.). Indo-China (Annam)=*Sterculia lanceolata* Cav.; see Merrill, op. cit. 263.
CAUCANTHUS sensu Raf. Sylva Tellur. 72. 1838, *descr.*, non Forsk.=*Sterculia* Linn. (*Firmania* Marsigli, 1786).
platanifolia Raf. l.c., *nom., nota* (*Sterculia platanifolia* Linn. f.). India, Arabia, Egypt; naturalized in Carolina.

²² Rafinesque may have derived his ideas on species segregation in *Gossypium* perhaps from Rohr, J. P. B. von, *Amerkungen über den Cattunbau* . . . 1:[1-6]. 1-129. 1791; 2:[1-18]. 1-156. 1793, or from the French translation of that work.

- CLOMPANUS** Raf. *Sylva Tellur.* 73. 1838, *descr.*, non Aubl. (1775)=*Sterculia* Linn.
molucanus Raf. l.c., *nom.* ([*Clompanus major*] Rumph. Herb. Amb. 3:168. t. 107. 1743). *Moluccas*=*Sterculia foetida* Linn.; see Merrill, Interpret, Rumph. Herb. Amb. 364. 1917.
- COLARIA** Raf. *Sylva Tellur.* 73. 1838, *descr.*=*Cola* Schott & Endl. (1832), *nom. conserv.* (*Bichea* Stokes, 1812; *Edwardia* Raf.; 1814; *Lunanea* DC., 1825).
acuminata Raf. l.c., *descr.* (*Sterculia acuminata* Beauv.). Tropical Africa=*Cola acuminata* (Beauv.) Schott & Endl.
heterophylla Raf. l.c., *descr.* (*Sterculia heterophylla* Beauv.). Tropical Africa=*Cola heterophylla* (Beauv.) Schott & Endl.
- CULHAMIA** Forsk.=*Sterculia* Linn.
triloba Raf. *Sylva Tellur.* 73. 1838, *descr.*; op. cit. 158. 1838 (*Sterculia setigera* Delile). Arabia.
- EDWARDIA** Raf. *Spech. Sci.* 1:158. 1814, *descr.*=*Cola* Schott & Endl. (1833), *nom. conserv.* (*Bichea* Stokes, 1812; *Edwardia* Raf., 1814; *Lunanea* DC., 1825).
lurida Raf. l.c., *descr.* Tropical Africa (Guinea)=*Cola acuminata* (Beauv.) Schott & Endl.
- FOMETICA** Raf. *Sylva Tellur.* 75. 1838, *descr.*=*Heritiera* Dryand. (1789).
punctata Raf. l.c., *descr.* (*Heritiera fomes* Buch.-Ham.). Burma.
- HELICTERES** Linn.
fetida Raf. ex Jacks*. Ind. Kew. 2:1117. 1893 (*Alicteres fetida* Raf.). South America=*Helicteres carthagenensis* Jacq.
- ICOSINIA** Raf. *Sylva Tellur.* 75. 1838, *descr.*=*Sterculia* Linn.
paniculata Raf. l.c., *descr.* (*Helicteres paniculata* Lour.). Indo-China (Annam)=*Sterculia* sp.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):263. 1935.
- KARAKA** Raf. *Sylva Tellur.* 72. 1838, *descr.*=*Sterculia* Linn. (*Erythropsis* Lindl., 1827).
colorata Raf. l.c., *descr.* (*Sterculia colorata* Roxb. Pl. Coromand. 1:26. t. 25. 1795). India. (*Erythropsis colorata* Burkill).
- KAVALAMA** Raf. *Sylva Tellur.* 72. 1838, *descr.* (*Kavalam* Adans.)=*Sterculia* Linn.
urens Raf. l.c., *nom.* (*Sterculia urens* Roxb.). India (Malabar).
- NISORALIS** Raf. *Sylva Tellur.* 74. 1838, *descr.*=*Helicteres* Linn.
jamaicensis Raf. l.c., *descr.* (*Helicteres jamaicensis* Lam.). Jamaica.
- *OPSOPEA** Raf. *Sylva Tellur.* 73. 1838, *descr.* [*Opsopaea* Neck., 1790]=*Sterculia* Linn.
**fetida* Raf. l.c., *descr.* (*Sterculia helicteres* Pers.; *Helicteres apetal* Jacq.). Colombia=*Sterculia apetal* (Jacq.) Karst.
- ORSOPEA** Raf. ex Jacks*. Ind. Kew. 2:377. 1894, *sphalm.*=*Opsopea* Raf.=*Sterculia* Linn.
fetida Raf. ex Jacks*. l.c., *sphalm.* Colombia=*Opsopea fetida* Raf.=*Sterculia apetal* (Jacq.) Karst. (*S. helicteres* Pers.).
- OZOXETA** Raf. *Sylva Tellur.* 75. 1838, *descr.*=*Helicteres* Linn.
ovata Raf. l.c., *nom.* (*Helicteres pentandra* Linn.). Guiana.
- RIDDELLIA** Raf. New Fl. N. Am. 4:15. 1836 [1838], *descr.*; Good Book 48. 1840, *nom.*=*Riddellia* Raf.=*Melochia* Linn.
antiphyla Raf. op. cit. 16, *descr.* Louisiana.
- *RIDDELLIA** Raf. *Sylva Tellur.* 113. 1838, *descr.*; Aut. Bot. 5. 1840, *nom.*; Good Book 46. 1840, *nom.*=*Melochia* Linn.
**antiphyla* Raf. *Sylva Tellur.* et Aut. Bot. II.cc., *descr.*, *nom.* Louisiana.
- SOUTHWELLIA** Salisb.=*Sterculia* Linn.
longifolia Raf. *Sylva Tellur.* 73. 1838, *nom.* (*Sterculia longifolia* Vent.). Tropical Africa=*Cola acuminata* (Beauv.) Schott & Endl.
- TRIPLOBUS** Raf. *Sylva Tellur.* 110. 1838, *descr.*, *nom. nov.* *Triphaca* Lour.=*Sterculia* Linn.
cordata Raf. op. cit. 111, *descr.* [*Triphaca africana* Lour.]. East Africa=*Sterculia africana* (Lour.) Merr. Trans. Am. Philos. Soc. 24(2):263. 1935 (*Sterculia triphaca* R. Br.; *S. ipomoeaefolia* Garcke).

DILLENIACEAE

- DIPLATER** Raf. *Sylva Tellur.* 165. 1838, *descr.*=*Tetracera* Linn.
alnifolia Raf. l.c., *nom.* (*Tetracera alnifolia* Willd.). Tropical Africa.

- ELEIASTIS** Raf. *Sylva Tellur.* 165. 1838, *descr.*=*Tetracera* Linn.
levis Raf. l.c., *nom.* (*Tetracera laevis* Vahl). India=*Tetracera akara* (Burm. f.) Merr.
- *GYNETERA** Raf. *Sylva Tellur.* 165. 1838, *descr.*=*Tetracera* Linn.
**volubilis* Raf. l.c., *nom.* (*Tetracera volubilis* Linn.). South America.
- GYNETRA** Raf. ex Jacks*. Ind. Kew. 1:1079. 1893=praec.
volubilis Raf. ex Jacks*. l.c.=praec.
- *SIALITA** Raf. Anal. Nat. Tabl. Univ. 176. 1815, *nom.* [*Syalita* Rheede, Hort. Malabar. 3:39. t. 38, 39. 1682]=*Syalita* Adans. (1763)=*Dillenia* Linn.
- TRAXILISA** Raf. *Sylva Tellur.* 161. 1838, *descr.*=*Tetracera* Linn.
aspera Raf. op. cit. 162, *descr.* (*Calligonum asperum* Lour.). Indo-China (Annam)=*Tetracera scandens* (Linn.) Merr.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):264. 1935.
- *VALBOMIA** Raf. *Sylva Tellur.* 165. 1838, *nom.* [*Wahlbomia* Thunb.]=*Tetracera* Linn.

THEACEAE

- *CAMELIA** Raf. *Sylva Tellur.* 138, 139, 140. 1838, *nom.*=*Camellia* Linn.
**axillaris* Raf. op. cit. 140, *nom.*=*Camellia axillaris* Roxb.=*Gordonia axillaris* (Roxb.) Dietr. Southeastern China.
**sasanqua* Raf. op. cit. 140, *nom.*, *sphalm.*=*Camellia sasanqua* Thunb. Japan.
- DESMITUS** Raf. *Sylva Tellur.* 139. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Camellia* Linn.
reticulata Raf. l.c., *descr.* (*Camellia reticulata* Lindl. Bot. Reg. 13: t. 1078. 1827; Hook. Bot. Mag. 54: t. 2784. 1827). China.
- DRUPIFERA** Raf. *Sylva Tellur.* 140. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Camellia* Linn.
oleosa Raf. *Sylva Tellur.* l.c., *descr.* (*Camellia drupifera* Lour.). Indo-China.
- FRANKLINIA** Bartr. ex Marsh.
†alatama Raf. First Cat. Bot. Gard. Transylv. Univ. 21. 1824, *nom.* Atl. Jour. 1:79. fig. 1832; Am. Florist fig. 3. 1832; Bartram's Garden, cult.=*Franklinia alatamaha* Bartr. ex Marsh.
- KEMELIA** Raf. *Sylva Tellur.* 138, *nom.*, 139, *descr.*, 1838, *nom. nov.* *Camellia* Linn.; Good Book 48. 1840, *nom.*=*Camellia* Linn.
**japonica* Raf. l.c., *descr.* (*Camellia japonica* Linn.). Japan.
- SASANQUA** Raf. *Sylva Tellur.* 140. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Sasanqua* Nees (1834)=*Camellia* Linn.
malliflora Raf. *Sylva Tellur.* l.c., *descr.* (*Camellia sasanqua* Thunb. var. *stricta* Ker-Gawl. Bot. Reg. 7: t. 547. 1821). China=*Camellia sasanqua* Thunb.
ochroleuca Raf. l.c., *descr.* (*Camellia axillaris* Roxb.; Ker-Gawl. Bot. Reg. 4: t. 349. 1819). Penang, cult. e China=*Gordonia axillaris* (Roxb.) D. Dietr. (*G. anomala* Spreng.).
odorata Raf. l.c., *descr.* (*Camellia sasanqua* Thunb.). Japan.
oleifera Raf. l.c., *descr.* (*Camellia oleifera* Abel.; Lindl. Bot. Reg. 11: t. 942. 1826). China.
- †THEAPHYLA** Raf. Fl. Tellur. 1:17. 1836 [1837], *nom.*; *Sylva Tellur.* 138. 1838, *descr.*, *nom. nov.* *Thea* Linn.; Good Book 48. 1840, *nom.*=*Camellia* Linn.
**anamensis* Raf. *Sylva Tellur.* 139. 1838, *descr.* [*Thea cochinchinensis* Lour.]. Indo-China (Annam)=*Thea sinensis* Linn.=*Camellia sinensis* (Linn.) O. Kuntze.
**cantoniensis* Raf. l.c., *descr.* (*Thea cantoniensis* Lour.). China=*Thea sinensis* Linn.=*Camellia sinensis* (Linn.) O. Kuntze; see Merrill, Trans. Am. Philos. Soc. II. 24(2):267. 1935.
**euryoides* Raf. l.c., *descr.* (*Camellia euryoides* Lindl. Bot. Reg. 12: t. 983. 1826). China.
**lanceolata* Raf. l.c., *descr.*, *nom. nov.* *Thea bohea* Linn. China=*Camellia sinensis* (Linn.) O. Kuntze.
**laxa* Raf. l.c., *descr.*, *nom. nov.* *Thea chinensis* Linn. China=*Camellia sinensis* (Linn.) O. Kuntze.
**oleifera* Raf. l.c., *descr.* (*Thea [oleosa]* Lour.). China=*Thea oleosa* Lour.=*Camellia oleosa* Lour. ex Jacks*. Ind. Kew. 1:400. 1893=*C. drupifera* (Lour.) (C. *oleifera* Abel); see Merrill, Trans. Am. Philos. Soc. II. 24(2):266. 1935.
**viridis* Raf. l.c., *descr.* [*Thea viridis* Linn.]. China, Japan=*Camellia sinensis* (Linn.) O. Kuntze.

THEAPHYLLA Raf. Med. Fl. 2:267. 1830, *nom. nov.* *Thea* Linn.; Loud. Gard. Mag. 8:246. 1832, *nom., nota, iter.* Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, *iter.* Britten, Jour. Bot. 38:277. 1900=*Theaphylla* Raf. (1838)=*Camellia* Linn.
anamensis Raf. ex Jacks*. Ind. Kew. 2:1061. 1895 (*Theaphylla anamensis* Raf.)=*Camellia sinensis* (Linn.) O. Kuntze.
cantonensis Raf. ex Jacks*. l.c. (*Theaphylla cantoniensis* Raf.)=*Camellia sinensis* (Linn.) O. Kuntze.
euryoides Raf. ex Jacks*. l.c. (*Theaphylla euryoides* Raf.)=*Camellia euryoides* Lindl.
lanceolata Raf. ex Jacks*. l.c. (*Theaphylla lanceolata* Raf.)=*Camellia sinensis* (Linn.) O. Kuntze.
laxa Raf. ex Jacks*. l.c. (*Theaphylla laxa* Raf.)=*Camellia sinensis* (Linn.) O. Kuntze.
oleifera Raf. ex Jacks*. l.c. (*Theaphylla oleifera* Raf.)=*Camellia drupifera* Lour.
viridis Raf. ex Jacks*. l.c. (*Theaphylla viridis* Raf.)=*Camellia sinensis* (Linn.) O. Kuntze.

GUTTIFERAE

ASCYRUM Linn.

grandiflorum Raf. Fl. Ludovic. 87. 1817, *descr.* (*Ascyrum* Rob. Voy. Louis. 3:472. 1807); Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana=A. stans Michx.
hypericifolium Raf. ex Jacks*. Ind. Kew. 1:209. 1893, *sphalm.* (Raf. Sylva Tellur. 116. 1838 "A hyperic. Sw.", i.e. *A. hypericoides* sensu Sw.). West Indies=A. hypericoides Linn.
montanum Raf. Sylva Tellur. 116. 1838, *descr.* (*Ascyrum hypericoides* sensu Sw.). Jamaica=praec.

BIROLIA Raf. Sylva Tellur. 163. 1838, *descr.*, non Bell. (1808)=*Clusia* Linn.

alba Raf. l.c., *nom.* (*Clusia alba* Jacq.). West Indies.

#**CENTENA** Raf. Fl. Tellur. 3:79. 1836 [1837], *descr.*, subgen. *Komana* Adans.=*Hypericum* Linn.

#**CENTERIA** Raf. Fl. Ludovic. 88. 1817, *descr.*, subgen. *Hypericum* Linn.

CLUSIA Linn.

**pedunculata* Raf. Sylva Tellur. 164. 1838, *nom.*, sub *Firkea* Raf., *sphalm.* New Caledonia=*Clusia pedicellata* Forst. f. =*Garcinia pedicellata* (Forst. f.) Seem.

ELODES Adans.; Raf. Fl. Tellur. 3:79. 1836 [1837], *descr.*=*Hypericum* Linn.

petiolata Raf. l.c., *nom.* [*Hypericum petiolatum* Walt.]. Southeastern United States.

tubulosa Raf. l.c., *nom.* [*Hypericum tubulosum* Walt.]. Southeastern United States.

ELWERTIA Raf. Sylva Tellur. 163. 1838, *descr.*=*Clusia* Linn.
retusa Raf. l.c., *nom.* (*Clusia retusa* Poir.). West Indies=*Clusia rosea* Jacq.

EPISIPHIS Raf. Fl. Tellur. 3:78. 1836 [1837], *descr.*=*Hypericum* Linn.

parvifolia Raf. l.c., *descr.* (*Hypericum aegypticum* Linn.; Ker-Gawl. Bot. Reg. 3: t. 196. 1817). Egypt.

FIRKEA Raf. Sylva Tellur. 163. 1838, *descr.*=*Clusia* Linn.

pedunculata Raf. ex Jacks*. Ind. Kew. 1:968. 1893 (*Clusia pedicellata* Forst. f.). New Caledonia=*Garcinia pedicellata* (Forst. f.) Seem. (*Clusianthemum pedicellatum* Vieill.).

rosea Raf. Sylva Tellur. 163. 1838, *nom.* (*Clusia rosea* Jacq.). Santo Domingo.

sessilis Raf. ex Jacks*. l.c. (*Clusia sessilis* Forst. f.). Tonga or Friendly Islands=*Garcinia sessilis* (Forst. f.) Seem.

venosa Raf. Sylva Tellur. 163. 1838, *nom.* (*Clusia venosa* Jacq.). West Indies.

HYPERICUM Linn.

**acutum* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.

**adpressum* Raf. Am. Monthly Mag. Crit. Rev. 1:358. 1817, *descr.*, *nom. nov. provis.* (*Hypericum* sp. [no. 6] Barton, Fl. Philadel. Prodr. 74. 1815) [*Hypericum adpressum* Barton, Comp. Fl. Philad. 2:15. 1818]. Philadelphia.

**diffusum* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.

**egyptium* Raf. Fl. Tellur. 3:78. 1836 [1837], *nom.*, sub *Episiphis* Raf. Egypt=H. aegypticum Linn.

fulgidum Raf. Fl. Ludovic. 88. 1817, *descr.* (*Millepertuis doré* Rob. Voy. Louis. 3:473. 1807); Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana=? H. fasciculatum Lam.

**grandiflorum* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.

**lasistemom* Raf. l.c., *nom.* Rocky Mountains or Oregon.

**laurifolium* Raf. op. cit. 79, *nom.* Alabama or Florida.

**revolutum* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.

**riparium* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.

rostratum Raf. Fl. Ludovic. 88. 1817, *descr.* (*Hypericum galioides affine* Rob. Voy. Louis. 3:88. 1807); Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana=? H. densiflorum Pursh, vel H. lobocarpum Gattinger.

**tenessicum* Raf. Herb. Raf. 62. 1833, *nom.* Tennessee.

**uniflorum* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.

**virgatum* Raf. op. cit. 62, *nom.* Kentucky or Illinois.

ICOSTEGIA Raf. Sylva Tellur. 163. 1838, *descr.*=*Clusia* Linn.
flava Raf. l.c., *nom.* (*Clusia flava* Linn.) Jamaica.

KNIFFA Vent. (1799)=Knifa Adans. (1763)=*Hypericum* Linn.
brevistylis Raf. ex Jacks*. Ind. Kew. 2:9. 1894 (*Hypericum brevistylum* Choisy). North America.

LOLANARA Raf. Fl. Tellur. 1:16, 34. 1836 [1837], *nom.*; op. cit. 2:34. 1836 [1837], *descr.*=*Ochrocarpos* Thou. (1806).
odorata Raf. Fl. Tellur. 2:34. 1836 [1837], *descr.* (*Lolanwara* [i.e. *Lolowaran*, *Lignum clavorum* Rumph. Herb. Amb. 3:97. t. 64. 1743]). Moluccas=*Ochrocarpos odoratus* (Raf.) Merr. Jour. Arnold Arb. 26:94. 1945 (*O. ovalifolius* T. Anders. 1885).

PETALANISIA Raf. Fl. Tellur. 3:80. 1836 [1837], *descr.*=*Hypericum* Linn.

PLEURENODON Raf. Fl. Tellur. 3:80. 1836 [1837], *descr.*=*Hypericum* Linn.

***SAIOTHTA** Raf. Act. Soc. Linn. Bordeaux 6:264. 1834, *nom.*, *sphalm.*, *iter.* Merr. Proc. Am. Philos. Soc. 86:87. 1942, op. cit. 90, *nom.*=*Sarothra* Linn.=*Hypericum* Linn.

SAROTHTA Linn.=*Hypericum* Linn.

†*canadensis* Raf. Atl. Jour. 1:17. 1832, *nom.*, in nota (*Hypericum canadense* Linn.); Fl. Tellur. 3:79. 1836 [1837], *nom.* Eastern North America.

cuneifolia Raf. Atl. Jour. l.c., *descr.* Kentucky.

fastigiata Raf. Fl. Tellur. 3:79. 1836 [1837], *nom.* (*Hypericum fastigiatum* Ell.). Southeastern United States.

†*parviflora* Raf. l.c., *nom.* [*Hypericum parviflorum* Willd.]. North America.

pauciflora Raf. l.c., *nom.* [*Hypericum pauciflorum* H.B.K.]. Mexico.

†*quinquenervia* Raf. ex M'Murtrie, Sketch. Louisv. 226. 1819, *nom.* (*quiquenervia*); Jacks. Ind. Kew. 2:806. 1895 [*Hypericum quinquenervium* Walt.]. Southeastern United States.

**stricta* Raf. Atl. Jour. 1:17. 1832, *nom. nov.* *Hypericum canadense* Linn. Eastern North America.

trinervia Raf. Fl. Tellur. 3:79. 1836 [1837], *nom.* (*Hypericum triplinerve* Vent.). North America.

***STREPALON** Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*=*Streptalon* Raf. (1837)=*Hypericum* Linn.

**saxatile* Raf. l.c., *nom.* (*Hypericum dolabriforme* Vent.). Kentucky.

**strictum* Raf. l.c., *nom.* Kentucky.

STREPTALON Raf. Fl. Tellur. 3:80. 1836 [1837], *descr.*=*praec.*

dolabriforme Raf. l.c., *nom.* [*Hypericum dolabriforme* Vent.]. Kentucky, Tennessee.

TRIADENUM Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818; *nom.*, *nota* (*Hypericum virginicum* Linn.); Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.*, *nota* (*Triddenum*); Ann. Gén. Sci. Phys. 7:105. 1820, *nom.*; Fl. Tellur. 3:78. 1836 [1837], *descr.*=*Hypericum* Linn.

**punctatum* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.

†*purpurascens* Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Hypericum virginicum* Linn.); Jour. Bot. (Paris) 2:171. 1809, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.*; Med. Fl. 2:269. 1830 *nom.* (*Hypericum virginicum* Linn.); Loud. Gard. Mag. 8: 246. 1832, *nom.*, *nota* (*Hypericum virginicum* Linn.), *iter.* Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, *iter.* Britten, Jour. Bot. 38:227. 1900;

- A. Gray, *Am. Jour. Sci.* 40:228. 1841, *nom.* Eastern North America=*Hypericum virginicum* Linn.
purpureum Raf. ex Jacks*. *Ind. Kew.* 2:1101. 1895, *sphalm.*=*praec.*
virginicum Raf. *Fl. Tellur.* 3:78. 1836 [1837], *nom.* (*Hypericum virginicum* Linn.). Eastern North America=*Hypericum virginicum* Linn.
 *TRIDDENUM Raf. *Jour. Phys. Chim. Hist. Nat.* 89:261. 1819, *nom.*, *sphalm.*=*Triadenum* Raf.=*Hypericum* Linn.

DIPTEROCARPACEAE

- NEISANDRA Raf. *Sylva Tellur.* 163. 1838, *descr.*=*Hopea* Roxb. (1814, 1819).
indica Raf. l.c., *nom.* (*Hopea decandra* Buch.-Ham.). India=*Hopea odorata* Roxb.

ELATINACEAE

- *CRIPTINA Raf. *Ann. Gén. Sci. Phys.* 5:349. 1820, *nom. nov.* *Crypta* Nutt.=*Elatine* Linn.
 *CRYPTARIA Raf. *Am. Monthly Mag. Crit. Rev.* 3:271. 1818, *nom. nov. provis.* *Crypta* Nutt.=*Elatine* Linn.
 *CRYPTELLA Raf. *Am. Monthly Mag. Crit. Rev.* 3:271. 1818, *nom. nov. provis.* *Crypta* Nutt.=*Elatine* Linn.
 †CRYPTINA Raf. *Am. Monthly Mag. Crit. Rev.* 3:271. 1818, *nom. nov.* *Crypta* Nutt.; *op. cit.* 273, *descr.*; *op. cit.* 4:192. 1819, *nom.* (*Crypta* Nutt.); *Jour. Phys. Chim. Hist. Nat.* 89:96, 260. 1819, *nom.* (*Crypta* Nutt.); *Isis von Oken* 1820, 1: Lit. Anz. 237. 1820, *nom.* (*Crypta* Nutt.); *op. cit.* 1821, 2:978. 1821, *nom.* (*Crypta* Nutt.); *Good Book* 21. 1840, *nom.*=*Elatine* Linn.
 *minima Raf. *Aut. Bot.* 46, 112. 1840, *nom.* (*Crypta minima* Nutt.; *Peplis americana* Pursh). Hudson and Delaware Rivers=*Elatine americana* (Pursh) Arn.

FRANKENIACEAE

- *FRANKERIA Raf. *Fl. Tellur.* 2:93. 1836 [1837], *nom. sub.* *Menetho* Raf., *sphalm.*=*Frankenia* Linn.
 *quadripetala Raf. l.c., *nom.*=*Frankenia tetrapetala* Labill. Australia.
 MENETHO Raf. *Fl. Tellur.* 2:93. 1836 [1837], *descr.*=*Frankenia* Linn.
sedifolius Raf. l.c., *descr.* (*Frankenia sphalm.*, *Frankeria*) "*quadripetala*" [*tetrapetala*] Labill. *Nov. Holl. Pl. Sp.* 1:88. t. 114. 1804). Australia=*Frankenia tetrapetala* Labill.
 STREPTIMA Raf. *Fl. Tellur.* 2:93. 1836 [1837], *descr.*=*Frankenia* Linn.
pauciflora Raf. l.c., *descr.* (*Frankenia pauciflora* DC.; Hook. *Bot. Mag.* 56: t. 2896. 1829). Australia.

TAMARICACEAE

- EUDIPLEX Raf. *Fl. Tellur.* 3:38. 1836 [1837], *descr.* (Type *Tamarix germanica* Linn.)=*Tamarix* Linn.

FOUQUIERIACEAE

- FOUQUIERA Spreng. (1825)=*Fouquieria* H.B.K. (1823).
 *formosa Raf. *Sylva Tellur.* 149. 1838, *descr.* Mexico. [*Fouquieria formosa* H.B.K.].

CISTACEAE

- ANTHELIS Raf. *Chloris Aetn.* 9. 1815, *nom. nov.* *Helianthemum* Juss.; *Am. Monthly Mag. Crit. Rev.* 2:266. 1818, *nom.*, *nota* (*Helianthemum* Juss.); *op. cit.* 4:193. 1818, *nom.* (*Helianthemum* Juss.); *Act. Soc. Linn. Bordeaux* 6:263. 1834 *nom.* (*Helianthemum* Juss.), *iter. Merr. Proc. Am. Philos. Soc.* 86:86. 1942; *Fl. Tellur.* 1:17. 1836 [1837], *nom.* (*Helianthemum* Juss.); *New Fl. N. Am.* 1:90. 1836, *nom.*; *op. cit.* 3:30. 1836 [1838], *nom.*, *nota*; *Sylva Tellur.* 132. 1838, *nom.*, *nota* (*Helianthemum* Juss.); *Good Book* 46. 1840, *nom.*=*Helianthemum* Mill. (1754).
albida Raf. *Chloris Aetn.* 9. 1815, *nom.* (*Cistus albidus* Linn.; *Helianthemum albidum* Pers.). Sicily=*Cistus albidus* Linn.
arenaria Raf. *New Fl. N. Am.* 3:31. 1836 [1838], *descr.* Southern New Jersey, Florida=? *Halimium canadense* (Linn.) Grosser=? *Crocianthemum canadense* (Linn.) Britton.

- glaucum* Raf. *Chloris Aetn.* 9. 1815, *nom.* (*Helianthemum glaucum* Pers.). Sicily=*Helianthemum glaucum* (Cav.) Pers.
glutinosa Raf. l.c., *nom.* (*Cistus glutinosus* Linn.). Sicily=*Fumana thymifolia* (Linn.) Halácsy, var. *glutinosa* (Linn.) Grosser.
laevipes Raf. l.c., *nom.* (*Cistus laevipes* Linn.). Sicily=*Fumana laevipes* (Linn.) Spach.
podanisia Raf. *New Fl. N. Am.* 3:30. 1836 [1838], *descr.* Red River of Arkansas and Louisiana; Texas=*Halimium rosmarinifolium* (Pursh) Grosser=*Crocianthemum rosmarinifolium* (Linn.) Barnhart.
 #EUDIEXA Raf. *New Fl. N. Am.* 1:90. 1836, *descr.*, *subgen.* *Lechea* Linn.
 FUMANA Raf. *Sylva Tellur.* 132. 1838, *descr.*=*Fumana* Spach (1836).
canariensis Raf. l.c., *nom.* (*Cistus canariensis* Jacq.). Canary Islands, Morocco=*Helianthemum canariense* (Jacq.) Pers.
ferruginea Raf. l.c., *nom.* (*Cistus ferrugineus* Lam.). Mediterranean region and Asia Minor=*Fumana arabica* (Linn.) Spach.
 *laevipes Raf. l.c., *nom.* (*Cistus laevipes* Linn.). Mediterranean region=*Fumana laevipes* (Linn.) Spach.
minor Raf. l.c., *nom.* (*Cistus fumana* Linn.; *Helianthemum fumana* Mill.). Mediterranean region=*Fumana nudifolia* (Lam.) Janch. (*F. procumbens* Gren & Godr.).
polifolia Raf. l.c., *nom.* (*Helianthemum polifolium* Pers.). Europe=*Helianthemum apenninum* (Linn.) Lam.
 HORANTHES Raf. *New Fl. N. Am.* 3:30. 1836 [1838], *descr.*, *subgen.* *Anthelis* Raf.; *Sylva Tellur.* 132. 1838, *descr.* *ut gen.*=*Crocianthemum* Spach (1836).
arenaria Raf. *Sylva Tellur.* *op. cit.* 133. 1838, *nom.* [*Anthelis arenaria* Raf.]. Southern New Jersey, Florida=? *Halimium canadense* (Linn.) Grosser=? *Crocianthemum canadense* (Linn.) Britton.
podanisia Raf. l.c., *nom.* [*Anthelis podanisia* Raf.]. Arkansas, Louisiana, Texas=*Halimium rosmarinifolium* (Pursh) Grosser=*Crocianthemum rosmarinifolium* (Pursh) Barnhart.
tripetala Raf. *New Fl. N. Am.* 3:30. 1836 [1838], *nom.* [*Helianthemum tripetalum* Moç. & Sessé; *Lechea mexicana* Raf.]. Mexico=*Lechea tripetala* (Moç. & Sessé) Britton.
 HORANTHUS Raf. ex Jacks*. *Ind. Kew.* 1:1173. 1893=*praec.*
 †LADANUM Raf. *Anal. Nat. Tabl. Univ.* 181. 1815, *nom.*; *Sylva Tellur.* 131. 1838, *descr.*; Spach, *Ann. Sci. Nat. II.* Bot. 6:366. 1836, *non Dill. ex Linn.*=*Cistus* Linn.
verum Raf. *Sylva Tellur.* 131. 1838, *nom.* (*Cistus ladaniferus* Linn.). Mediterranean region=*Cistus ladaniferus* Linn.
 LECHEA Linn.
brevifolia Raf. *New Fl. N. Am.* 1:96. 1836, *descr.* Appalachian Mountains.
cinerea Raf. *op. cit.* 91, *descr.* (*Lechea thymifolia* Michx.). Florida, Georgia.
corymbosa Raf. *op. cit.* 94, *descr.* Alleghany Mountains.
floridana Raf. *op. cit.* 95, *descr.* Florida.
furfuracea Raf. *op. cit.* 92, *descr.* Kentucky, Illinois.
glomerata Raf. *op. cit.* 94, *descr.* Appalachian Mountains.
heterophylla Raf. *op. cit.* 93, *descr.* (*Lechea minor* sensu Sm.) Kentucky, Illinois=*Lechea minor* Linn.
 var. *major* Raf. *op. cit.* 94, *nom.*
 minor Raf. l.c., *nom.*
 parviflora Raf. l.c., *descr.*
laxiflora Raf. *op. cit.* 92, *descr.* New Jersey.
 var. *brevifolia* Raf. l.c., *descr.*
 *linifolia Raf. *Atl. Jour.* 1:18. 1832, *nom.* North America.
 *mexicana Raf. *Sylva Tellur.* 133. 1838, *nom.* (*Helianthemum tripetalum* Moç. & Sessé). Mexico=*Lechea tripetala* (Moç. & Sessé) Britton.
 †mucronata Raf. *Précis Découv. Somiol.* 37. 1814, *descr.*; *Jour. Bot. (Desv.)* 4:269. 1814, *descr.*; *Am. Monthly Mag. Crit. Rev.* 1:359. 1817, *nom.*; *New Fl. N. Am.* 1:93. 1836, *descr.* (*Lechea villosa* Ell.; *L. major* sensu Walter et Michx.). New England to New Jersey and Carolina (*Lechea villosa* Ell.).
 var. *ramosa* Raf. *New Fl. N. Am.* l.c., *descr.* [South Carolina].
 sessiliflora Raf. l.c., *descr.* Missouri.
 simplex Raf. l.c., *descr.*
pauciflora Raf. *New Fl. N. Am.* 1:96. 1836, *descr.* Long Island and New Jersey, seashores.

LECHEA (*continued*).

- **paucifolia* Raf. Atl. Jour. 1:18. 1832, *nom.* North America.
pulchella Raf. New Fl. N. Am. 1:94. 1836, *descr.* Pine Barrens of New Jersey.
 var. *elegans* Raf. l.c., *descr.*
 minor Raf. l.c., *descr.*
pyramidalis Raf. l.c., *descr.*
recurvata Raf. op. cit. 93, *descr.* Virginia and Carolina
revoluta Raf. op. cit. 94, *descr.* (*Lechea minor* Linn.). Canada and Alleghany Mountains of Pennsylvania=*Lechea minor* Linn.
secundiflora Raf. op. cit. 95, *descr.* Western Kentucky=*Lechea tenuifolia* Michx.
sessiliflora Raf. op. cit. 97, *descr.* Alabama, Florida.
 **sessilifolia* Raf. ex Hodgdon, *Rhodora* 40:63. 1938, *sphalm.*=*praec.*
stellata Raf. op. cit. 96, *descr.* New York, Ohio=*L. minor* Linn.
 †*surculosa* Raf. Herb. Raf. 68. 1833, *nom.*; New Fl. N. Am. 1:94. 1836, *descr.* Pennsylvania.
ternifolia Raf. New Fl. N. Am. 1:91. 1836, *descr.* Virginia, New Jersey.
uniflora Raf. op. cit. 96, *descr.* Alleghany Mountains of Maryland.
verna Raf. op. cit. 92. 1836, *descr.*, *nom. nov.* *Lechea tenuifolia* Michx. South Carolina=*Lechea tenuifolia* Michx.
virgata Raf. op. cit. 95, *descr.* Alleghany Mountains.
 var. *bracteata* Raf. l.c., *descr.*
breviflora Raf. l.c., *descr.*
 #**LEKEA** Raf. New Fl. N. Am. 1:93. 1836, *nom.*, subgen. *Lechea* Linn.
LIBANOTIS Raf. Sylva Tellur. 132. 1838, *descr.*=*Cistus* Linn.
populifolia Raf. l.c., *nom.* (*Cistus populifolius* Linn.). Southern Europe=*Cistus populifolius* Linn.
umbellata Raf. l.c., *nom.* (*Cistus libanotis* Lam.). Mediterranean region=*Halimium libanotis* (Linn.) Lange.
 #**MENANDRA** Raf. New Fl. N. Am. 1:90. 1836, *descr.*, subgen. *Lechea* Linn.
 ***PLATONIA** Raf. Car. Nov. Gen. Sp. Sicil. 73. 1810, *nom. nov.* *Helianthemum* auctt. (non *Platonia* Raf. 1808, nec Mart., 1829, nec Kunth, 1830)=*Helianthemum* Mill. (1754).
PSISTINA Raf. Sylva Tellur. 133. 1838, *descr.* (*Anthelis* sp.)=*Helianthemum* Mill. (1754).
STEGITRIS Raf. Sylva Tellur. 132. 1838, *descr.*=*Halimium* (Dunal) Spach (1836).
algarviensis Raf. l.c., *nom.* (*Cistus algarvensis* Curtis). Iberian Peninsula=*Halimium ocyroides* (Lam.) Willk. & Lange.
atriplicifolius Raf. l.c., *nom.* (*Cistus atriplicifolius* Lam.). Iberian Peninsula=*Halimium atriplicifolium* (Lam.) Spach.
calycinus Raf. l.c., *nom.* (*Cistus calycinus* Linn.). Southern Europe.
lasianthus Raf. l.c., *nom.* (*Cistus lasianthus* Lam.). Iberian Peninsula=*Halimium lasianthus* (Lam.) Grosser.
STROBON Raf. Sylva Tellur. 132. 1838, *descr.*=*Cistus* Linn. et, p.p., *Halimium* (Dunal) Spach (1836).
halmifolium Raf. l.c., *nom.* (*Cistus halmifolius* Linn.). Mediterranean region=*Halimium halmifolium* (Linn.) Willk. & Lange.
vaginatum Raf. l.c., *nom.* (*Cistus vaginatus* sensu Jacq.; *C. symphytifolius* Lam.). Canary Islands=*Cistus symphytifolius* Lam. et var. *vaginatus* (Dryand.) Grosser.
 #**TROPENDRIA** Raf. New Fl. N. Am. 1:95. 1836, *descr.*, *nom. provis.*, subgen. *Lechea* Linn.
XOLANTHA Raf. Car. Nuov. Gen. Sp. Sicil. 73. 1810, *descr.*=*Helianthemum* Mill. (1754).
racemosa Raf. op. cit. 74. t. 18. f. 1, *descr.*; Stat. Gen. Sicil. 27. 1810, *nom.* Sicily=*Helianthemum pilosum* (Linn.) Benth.
XOLANTHES Raf. Sylva Tellur. 132. 1833, *descr.*=*Xolantha* Raf. (1810)=*Helianthemum* Mill. (1754).
guttata Raf. l.c., *nom.* (*Cistus guttatus* Linn.)=*Tuberaria guttata* (Linn.) Grosser.
racemosa Raf. l.c., *descr.* (*Xolantha racemosa* Raf.). Sicily=*Helianthemum pilosum* (Linn.) Benth.

VIOLACEAE

- CUBELIUM** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Western Minerva 41. 1824, *nom.* (*Viola concolor* Forst.), iter. Fox, Science II. 12:212. 1900; Atl.

Jour. 1:144. 1832, *nom.*, *nota* (*Viola concolor* Forst.; *Solea* Ging.); Good Book 40. 1840, *nom.* (*Solea* Ging.)=*Hybanthus* Jacq. (1760), *nom. conserv.* (*Calceolaria* Loeffl., 1758; *Aembilla* Adans., 1763).

concolor Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* (*Viola* [*concolor* Forst.]). Eastern North America=*Hybanthus concolor* (Forst.) Spreng.

**heterophyllum* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.

parviflorum Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.

VIOLA Linn.

**aetnensis* Raf. Chloris Aetn. 9. 1815, *nom.* Sicily.

**decumbens* Raf. Am. Jour. Sci. 1:81. 1818, *nom.* Pennsylvania.

**eriocarpa* Raf. Atl. Jour. 1:152. 1832, *descr.* Near Lake Erie or Lake Ontario.

**fusca* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.

†*gibbosa* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.

**glechomifolia* Raf. Herb. Raf. 51. 1833, *nom.* Rocky Mountains or Oregon.

**heterophylla* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.* Central Atlantic United States.

†*nephrodes* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.

†*ovata* Raf. Am. Jour. Sci. 1:81. 1818, *nom.*; Ging. in DC. Prodr. 1:293. 1824, *nom.* in syn. sub *Viola primulaefolia* Linn. var. ? *ovata* Ging.

**parvifolia* Raf. op. cit. 82, *nom.* New Jersey.

**serotina* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.

tenella Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.*; op. cit. 2:176. 1818, *nom.*, *nota* (= *Viola bicolor* Pursh, non Gilib., fide Raf. l.c.); op. cit. 4:191. 1819, *nom.* (*Viola bicolor* Pursh); Jour. Phys. Chim. Hist. Nat. 19:258, 1819, *nom.* (*Viola bicolor* Pursh). Eastern North America=V. kitaibeliana R. & S. var. *rafinesquii* (Greene) Fernald, *Rhodora* 40:143. 1938.

FLACOURTIACEAE

ANAVINGA Adans. (1763); Raf. Sylva Tellur. 149. 1838, *descr.* =*Casearia* Jacq. (1760).

comocladifolia Raf. l.c., *nom.* [*Casearia comocladifolia* Vent.]. West Indies.

ilicifolia Raf. l.c., *nom.* (*Casearia ilicifolia* Vent.). Santo Domingo.

BEDOUSIA Dennst.=*Casearia* Vent. (1760).

aromatica Raf. ex Jacks*. Ind. Kew. 1:283. 1893 (*Bedusia aromatica* Raf.). India=*Casearia tomentosa* Roxb.

BEDUSIA Raf. Sylva Tellur. 11. 1838, *descr.*=*praec.*

**aromatica* Raf. l.c., *descr.* (*Tsjerou-Kanneli* Rheede, Hort. Malabar. 5:99. t. 50. 1685). India=*Casearia tomentosa* Roxb.

CHETOCRATER Raf. Sylva Tellur. 149. 1838, *descr.*=*Casearia* Jacq. (1760).

hirta Raf. l.c., *nom.* (*Casearia hirta* Sw.). West Indies.

javitensis Raf. l.c., *nom.* (*Casearia javitensis* H.B.K.). South America.

tinifolia Raf. l.c., *nom.* (*Casearia tinifolia* Vent.). Hab.?

MAROTTIA Raf. Sylva Tellur. 155. 1838, *descr.*=*Hydnocarpus* Gaertn. (1788).

oleosa Raf. l.c., *descr.* (*Marotti* Rheede, Hort. Malabar. 1:65. t. 36. 1678). India=*Hydnocarpus wightiana* Blume =*H. laurifolia* (Dennst.) Sleumer.

PASSIFLORACEAE

***BALDUINIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* (*Passiflora peltata* Pursh)=*Passiflora* Linn.

BALDWINIA Raf. Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.*; op. cit. 4:189. 1819, *nom.*=*Passiflora* Linn.

peltata Raf. ex Jacks*. Ind. Kew. 1:265. 1893 (*Passiflora peltata* Pursh). North America.

#**BALOSTIS** Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.*, subgen. *Tacsonia* Juss. (Type, *Passiflora glauca* Ait.)=*Passiflora* Linn.

- BLEPHISTELMA** Raf. Fl. Tellur. 4:103. 1836 [1838], *descr.* = *Passiflora* Linn.
aurantia Raf. l.c., *descr.* (*Murucuja aurantia* Pers.; *Passiflora aurantia* Forst. f.; Andr. Bot. Repos. 5: t. 295. 1803). New Caledonia.
ERNDELIA Neck.; Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.* = *Passiflora* Linn.
reflexiflora Raf. l.c., *nom.* (*Passiflora reflexiflora* Cav.; *Tacsonia reflexiflora* Juss.). Ecuador.
MACROPHORA Raf. Fl. Tellur. 4:103. 1836 [1838], *descr.* = *Passiflora* Linn.
sanguinea Raf. l.c., *descr.* (*Passiflora sanguinea* Sm.). West Indies.
#MARACOA Raf. Sylva Fl. Tellur. 4:102. 1836 [1838], *descr.*, subgen. *Passiflora* Linn.
MEIOPERIS Raf. Fl. Tellur. 4:103. 1836 [1838], *descr.* = *Passiflora* Linn.
angustifolia Raf. l.c., *nom.* (*Passiflora angustifolia* Sw.). West Indies = *P. suberosa* Linn. var. *angustifolia* (Sw.) Mast.
hederacea Raf. l.c., *nom.* (*Passiflora hederacea* Cav.). Tropical America = *P. suberosa* Linn. var. *hederacea* (Cav.) Mast.
minima Raf. l.c., *nom.* (*Passiflora minima* Linn.). Tropical America = *P. suberosa* Linn. var. *minima* (Linn.) Mast.
multiflora Raf. l.c., *nom.* (*Passiflora multiflora* Linn.). Santo Domingo.
pallida Raf. l.c., *nom.* (*Passiflora pallida* Linn.). Tropical America = *P. suberosa* Linn. var. *pallida* (Linn.) Mast.
pannosa Raf. l.c., *nom.* (*Passiflora pannosa* Sw.). West Indies.
peltata Raf. l.c., *nom.* (*Passiflora peltata* Cav.). Tropical America = *P. suberosa* Linn. var. *lineariloba* (Hook. f.) Mast.
suberosa Raf. l.c., *nom.* (*Passiflora suberosa* Linn.). Tropical America.
ODOSTELMA Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.* = *Tacsonia* Juss. (1789) = *Passiflora* Linn.
adulterina Raf. l.c., *nom.* (*Tacsonia adulterina* Juss.). Colombia.
pedunculata Raf. l.c., *nom.* (*Tacsonia peduncularis* Juss.). Peru.
PEREMIS Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.* = *Passiflora* Linn.
orbiculata Raf. l.c., *nom.* (*Murucuja orbiculata* Pers.; *Passiflora orbiculata* Cav.). West Indies = *Passiflora murucuja* Linn.
PERICODIA Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.* = *Passiflora* Linn.
perfoliata Raf. l.c., *nom.* (*Passiflora perfoliata* Linn.). West Indies.
#PERIMNA Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.*, subgen. *Tacsonia* Juss. (1789) = *Passiflora* Linn.
#SIPHOSTEGIA Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.*, subgen. *Tacsonia* Juss. (1789) = *Passiflora* Linn.
SYNACTILA Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.* = *Passiflora* Linn.
viridiflora Raf. l.c., *nom.* (*Passiflora viridiflora* Cav.). Mexico.
TRIPSILINA Raf. Fl. Tellur. 4:103. 1836 [1838], *descr.* = *Passiflora* Linn.
fetida Raf. l.c., *nom.* (*Passiflora foetida* Linn.; Sims, Bot. Mag. 53: t. 2619. 1826). Tropical America.
#TRISTEGIA Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.*, subgen. *Tacsonia* Juss. = *Passiflora* Linn.
XEROGONA Raf. Fl. Tellur. 4:103. 1836 [1838], *descr.* = *Passiflora* Linn.
biloba Raf. l.c., *descr.* (*Passiflora capsularis* Linn.; Hook. Bot. Mag. 55: t. 2868. 1828). Tropical America.

CARICACEAE

- CARICA** Linn.
**floridana* Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.* *nov. provis.* *Carica papaya* Linn. Florida.

LOASACEAE

- *NUTTALLA** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom.* (*Bartonia* Sims, 1804, non Muhl., 1801) = seq.
***NUTTALLIA** Raf. Fl. Tellur. 1:89. 1836 [1837], *nom.*; Act. Soc. Linn. Bordeaux 6:267. 1834, *nom.* = *Mentzelia* Linn.

- NUTTALLA** Raf. Am. Monthly Mag. Crit. Rev. 2:175-176. 1818 ("*Nuttallae*") *nom. nov.* *Bartonia* Sims (1804), non Muhl. (1801); op. cit. 2:266. 1818, *nom.* (*Bartonia* Sims); op. cit. 4:193. 1819, *nom.*, *nota*, (*Bartonia* Sims, 1804, non Muhl. 1801); Jour. Phys. Chim. Hist. Nat. 89:257. 1819; *nom.*, *nota* (*Bartonia* Sims, 1804, non Muhl., 1801) = *praec.*
**grandiflora* Raf. Casket. 1828:379. f. 15. 1828, *descr.*; Sat. Eve. Post 7(367):[4]. 1.f. 1828, *descr.* Missouri, Arkansas = *Mentzelia decapetala* (Pursh) Urban & Gilg.
**ornata* Raf. Am. Florist f. 16. 1832 [*Bartonia ornata* Pursh]. North America = *Mentzelia ornata* (Pursh) Torr. & Gray.
**vespertina* Raf. Casket 1828:379. 1828, *nom.*; Sat. Eve. Post 7(367):[4]. 1828, *nom.* North America.
***NUTTALLIA** Raf. Am. Monthly Mag. Crit. Rev. 1:358. 1817, *nom.*, *nota* (*Bartonia* Sims); op. cit. 2:175. 1818, *nom.*, *nota*, *sphalm.*, "*Nuttallae*" (*Bartonia* Sims); Fl. Tellur. 1:89. 1836 [1837], *nom.* = *Mentzelia* Linn.
***RHOANTHUS** Raf. Act. Soc. Linn. Bordeaux 6:267. 1834, *nom. nov. provis.* *Nuttallia* Raf. (1817) (*Bartonia* Sims 1804), iter. Merr. Proc. Am. Philos. Soc. 86:88. 1942, op. cit. 90, *nom.* non *Bartonia* Muhl. (1801) = *Mentzelia* Linn.

BEGONIACEAE

- TRILOMISA** Raf. Fl. Tellur. 2:91. 1836 [1837], *descr.* = *Begonia* Linn.
undulata Raf. l.c., *descr.* (*Begonia undulata* Schott; Hook. Bot. Mag. 54: t. 2723. 1827). Brazil.

CACTACEAE

- CACTUS** Linn.
**clavulatus* Raf. Herb. Raf. 54. 1833, *nom.* (*Cactus viviparus* Nutt.?). Northwestern United States (Lewis & Clark).
**cyclophylus* Raf. l.c., *nom.* (*Cactus fragilis* Nutt.?). Northwestern United States (Lewis & Clark) = ? *Opuntia fragilis* (Nutt.) Haw.
humifusus Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* (*Cactus opuntia* auct. Am.). New York to Kentucky and Missouri = *Opuntia humifusa* Raf. (*O. rafinesquii* Engelm.).
**mesacantha* Raf. Western Minerva 41. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900. Kentucky = *Opuntia mesacantha* Raf. = *O. humifusa* Raf.
**noctiflorus* Raf. Am. Florist f. 18. 1832, *nom.*, cult. "Night-blooming Cereus" Cult = *Cactus grandiflorus* Linn. (*Selenicereus grandiflorus* Britt. & Rose).
**ovatus* Raf. Herb. Raf. 54. 1833, *nom.* (*Cactus mammillaris* Nutt.?). Northwestern United States (Lewis & Clark).
***CERCUS** Raf. Act. Soc. Linn. Bordeaux 6:267. 1834, *nom.*, *sphalm.* = *Cereus* Linn.
OPUNTIA Mill.
bartrami Raf. Atl. Jour. 1:146. 1832, *descr.* (*sphalm. bartami*). Southern United States.
cespitosa Raf. Med. Fl. 2:247. 1830, *nom.*; Seringe, Bull. Bot. 1:216. 1830, *descr.*; iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833; Atl. Jour. 1:147. 1832, *descr.* Kentucky, Tennessee (*O. rafinesquii* Engelm.) = *O. humifusa* Raf.
**coccinea* Raf. Med. Fl. 2:247, *nom.*, 248, *descr.* 1830, United States.
humifusa Raf. l.c., *nom.* Atl. Jour. 1:147. 1832, *nom.*; Seringe, Bull. Bot. 1:216. 1832, *nom.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833 (*Cactus humifusus* Raf.). Kentucky (*O. rafinesquii* Engelm.).
maritima Raf. l.c., *nom.*; Atl. Jour. 1:146. 1832, *descr.* (*sphalm. mritima*). Carolina to Florida.
mesacantha Raf. l.c., *nom.*; Seringe, Bull. Bot. 1:216. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833; Atl. Jour. 1:147. 1833, *descr.*, *sphalm.* *mesacaatha*. Kentucky = *O. humifusa* Raf.
spinalba Raf. Atl. Jour. 1:147. 1832, *descr.* Florida.
***UPUNTIA** Raf. New Fl. N. Am. 3:94. 1836 [1838], *nom.*, *sphalm.* = *Opuntia* Mill. (1752).

THYMELAEACEAE

- BALENDASIA** Raf. Fl. Tellur. 4:105. 1836 [1838], *descr.* = *Passerina* Linn.
ericoides Raf. l.c., *descr.* (*Passerina ericoides* Linn.). South Africa.

- BELVALA** Adans.; Raf. Fl. Tellur. 4:104. 1836 [1838], *descr.* = *Struthiola* Linn. (1767), *nom. conserv.* (*Belvala* Adans., 1763).
spicata Raf. op. cit. 105, *nom.* (*Passerina dodecandra* Linn.). South Africa = *Struthiola dodecandra* (Linn.) Druce (*S. erecta* Linn.).
- DAPHNE** Linn.
**lateriflora* Raf. Aut. Bot. 145. 1840, *descr.* Europe = *Daphne alpina* Linn.
**mezeron* Raf. l.c., *nom.* = *D. mezerum* Linn. Europe.
**undulata* Raf. l.c., *descr.* ? Siberia = ? *Daphne laureola* Linn.
- *DESSENIA** Raf. Aut. Bot. 11. 1840, *nom.* (non *Dessenia* Adans.; fide Raf. Aut. Bot. 147. 1840, sub *Struthiola virgata* Linn.) = *Struthiola* Linn. (1767), *nom. conserv.* (*Belvala* Adans., 1763).
**scoparia* Raf. l.c., *nom.* (*Struthiola erecta* Linn.). South Africa.
- *DESSENIA** Raf. Fl. Tellur. 4:106. 1836 [1838], *descr.*, non Adans. (1763) = *Lasiosiphon* Friesen. (1838).
daphnefolia Raf. l.c., *descr.* (*Gnidia daphnaefolia* Linn. f.). Madagascar = *Lasiosiphon pubescens* (Lam.) Decne.
hirsuta Raf. l.c., *descr.* [*Gnidia daphnaefolia* Linn. f. var. *hirsuta* Linn. f. Suppl. 225. 1781]. Madagascar = *Lasiosiphon pubescens* (Lam.) Decne.
lanceolata Raf. l.c., *descr.* (*Gnidia capitata* Linn. f.). South Africa = *Lasiosiphon capitatus* (Linn. f.) Burt Davy (*L. limifolius* Decne.).
- GASTRILIA** Raf. Fl. Tellur. 4:105. 1836 [1838], *descr.* = *Thymelaea* Endl. (1848), *nom. conserv.* (*Sanamunda* Adans., 1763; *Ligia* Fusano, 1788).
geminata Raf. l.c., *descr.* (*Daphne dioica* Linn.). Southern Europe = *Thymelaea dioica* (Linn.). All.
umbellata Raf. l.c., *descr.* (*Daphne occidentalis* Sw.). West Indies = *Daphnopsis occidentalis* (Sw.) Krug & Urban.
- LACHNEA** Linn. = *Lachnaea* Linn.
**buxifolia* Raf. Fl. Tellur. 4:106. 1836 [1838], *nom.* sub *Nemotitis* Raf. South Africa = *Lachnaea buxifolia* Lam. (*Gnidia filamentosa* Linn. f.; *Lachnaea filamentosa* Gilg, non Meissn.).
- NEMOTIS** Raf. Fl. Tellur. 4:106. 1836 [1838], *descr.* = *Lachnaea* Linn.
angustifolia Raf. l.c., *descr.* South Africa = seq.
buxifolia Raf. l.c., *descr.* (*Gnidia filamentosa* Linn. f.; *Lachnaea buxifolia* Lam.). South Africa = *Lachnaea buxifolia* Lam. (*L. filamentosa* Gilg, non Meissn.).
- OCTOPLIS** Raf. Fl. Tellur. 4:105. 1836 [1838], *descr.* = *Gnidia* Linn.
polistachya Raf. l.c., *descr.* (*Gnidia polystachya* Berg.). South Africa = *Gnidia polystachya* Berg.
- PAUSIA** Raf. Fl. Tellur. 4:105. 1836 [1838], *descr.*, non *Pausia* Raf. Sylva Tellur. 9. 1838 = *Thymelaea* Endl. (1848), *nom. conserv.* (*Sanamunda* Adans., 1763; *Ligia* Fusano, 1788; *Pausia* Raf., 1838).
orientalis Raf. l.c., *descr.* (*Passerina orientalis* Willd.). Mediterranean region = *Thymelaea orientalis* Willd. Meissn.
- SANAMUNDA** Adans.; sensu Raf. = *Passerina* Linn.
**adpressa* Raf. Aut. Bot. 147. 1840, *descr.* (*Passerina filiformis* Linn.). South Africa.
**axillaris* Raf. op. cit. 146, *descr.* (*Passerina lateriflora* hort.). South Africa.
**grandiflora* Raf. l.c., *nom.* (*Passerina grandiflora* Linn.). South Africa.
**subulata* Raf. op. cit. 147, *descr.* (*Gnidia pinifolia* Linn.). South Africa.
**umbellata* Raf. l.c., *descr.* (*Passerina filiformis* auct.). South Africa.
- SCOPOLIA** Linn. f. (1781), non Jacq. (1764) = *Daphne* Linn.
pendula Raf. Fl. Tellur. 4:106. 1836 [1838], *descr.* (*Scopolia composita* Linn. f.; *Daphne pendula* Sm.). Java = *Daphne composita* (Linn. f.) Gilg.
- STEIROCTIS** Raf. Fl. Tellur. 4:105. 1836 [1838], *descr.* = *Lachnaea* Linn.
capitata Raf. l.c., *nom.* (*Passerina capitata* Linn.). South Africa = *Lachnaea capitata* (Linn.) Meissn.
uniflora Raf. l.c., *nom.* (*Passerina uniflora* Linn.). South Africa = *Cryptadenia uniflora* (Linn.) Meissn.
- *STRUSIOLA** Raf. Aut. Bot. 147. 1840, *nom. nov.* *Struthiola* Linn. (1767), *nom. conserv.* (*Belvala* Adans., 1763).
**scoparia* Raf. op. cit. 148, *nom.* (*Dessenia scoparia* Raf. op. cit. 11; *Struthiola erecta* Linn.). South Africa.

- *virgata* Raf. op. cit. 147, *nom.* (*Struthiola virgata* Linn.). South Africa.
- TARTONIA** Raf. Aut. Bot. 146. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.* = *Thymelaea* Endl. (1848), *nom. conserv.* (*Sanamunda* Adans., 1763; *Ligia* Fusano, 1788).
**cuneifolia* Raf. l.c., *descr.* Italy, Greece.
obovata Raf. l.c., *descr.* (*Daphne tartonraira* Linn.; *Passerina tartonraira* Schrad.; Pennell, l.c., *nom.* Southern France and Spain = *Thymelaea tartonraira* (Linn.) All.
**ovatifolia* Raf. l.c., *descr.* (*Passerina hirsuta* Linn.). Crete.
- TUMELAIA** Raf. Fl. Tellur. 4:105. 1836 [1838], *descr.*, *nom.* nov. *Sanamunda* Neck., 1790, non Adans., 1763 = *Daphne* Linn.
- XAIASME** Raf. Fl. Tellur. 4:106. 1836 [1838], *descr.*, subgen. *Dessenia* Adans. = *Stellera* Linn.
bicolor Raf. l.c., *descr.* (*Stellera chamaejasme* Linn.). Siberia.

ELAEAGNACEAE

- ELAEAGRUS** Pallas = *Elaeagnus* Linn.
**angustifolia* Raf. Aut. Bot. 144. 1840, *nom.* (*Elaeagnus angustifolia* Linn.). Mediterranean region.
**orientalis* Raf. l.c., *nom.* (*Elaeagnus orientalis* Linn.). Arabia. Persia.
- *ELEAGRUS** Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.* = *Elaeagnus* Linn.
- LEPARGYREA** Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.*, *nota* (*Hippophaë argentea* Pursh); op. cit. 4: 188, 195. 1819, *nom. nov.* *Shepherdia* Nutt.; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* (*Shepherdia* Nutt.); Med. Fl. 2:237. 1830, *nom.* (*Shepherdia* Nutt.) = *Shepherdia* Nutt. (1818), *nom. conserv.* (*Lepargyrea* Raf., 1818).
**missurica* Raf. Herb. Raf. 40. 1833, *nom.* (*Shepherdia argentea* Nutt.). Central United States = *Shepherdia argentea* (Pursh) Nutt.
- *SHEPHERDIA** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* = *Shepherdia* Nutt.

LYTHRACEAE

- AMMANNIA** Linn.
auriculata Raf. Atl. Jour. 1:146. 1832, *nom. nov.* *Ammannia ramosior* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:199. 1827. Central United States = *Rotala ramosior* (Linn.) Koehne.
**diffusa* Raf. Aut. Bot. 39. 1840, *descr.* West Indies = *A. auriculata* Willd.
**linearifolia* Raf. l.c., *descr.* (*Ammannia ramosa* Hill = *A. ramosior* Linn.). North America = *Rotala ramosior* (Linn.) Koehne, var. interior Fernald & Griscom.
**longifolia* Raf. l.c., *descr.* Arkansas and Louisiana = *A. coccinea* Rottb.
**multicaulis* Raf. l.c., *descr.* Virginia = *Rotala ramosior* (Linn.) Koehne.
**teres* Raf. l.c., *descr.* Virginia to Carolina. (*A. koehnei* Britton, 1891); see Fernald, *Rhodora* 46:49. 1944.
- BERGENIA** Raf. Sylva Tellur. 102. 1838, *descr.*, non Moench (1794) = *Cuphea* P. Browne (1756).
siphilitica Raf. ex Jacks*. Ind. Kew. 1:294. 1893 [*Cuphea serpyllifolia* H.B.K.]. Mexico to South America.
- *BOYKIANA** Raf. Neogen. 2. 1825, *descr.* (*Ammannia humilis* Michx.); Act. Soc. Linn. Bordeaux 6:266. 1834, *nom.*, iter. Merr. Proc. Am. Philos. Soc. 86:88. 1942, *nota* = seq.
- *BOYKINIA** Raf. New Fl. N. Am. 4:66. 1836 [1838], *nom.*; Aut. Bot. 9. 1840, *descr.* non Nutt. (1834) = *Rotala* Linn. *humilis* Raf. Aut. Bot. l.c., *nom.* (*Ammannia humilis* Linn.) (Ind. Kew. 1:329. 1893 sub *Boykinia* Nutt.); Merr. Proc. Am. Philos. Soc. 86:89. 1942, *nom.* North America = *Rotala ramosior* (Linn.) Koehne.
- *CESDELIA** DC. ex Raf. Act. Soc. Linn. Bordeaux 6:266. 1834, *nom.*, *nota*, iter. Merr. Proc. Am. Philos. Soc. 86:88. 1942, op. cit. 89, *nom.* = *Ammannia* Linn.
- CUPHEA** P. Browne
**albida* Raf. Herb. Raf. 68. 1833, *nom.*; New Fl. N. Am. 2:32. 1836 [1837], *descr.* Pennsylvania, north of Carlisle = *C. petiolata* (Linn.) Koehne.
**siphyltica* Raf. Sylva Tellur. 102. 1838, *nom.* sub *Bergenia*, *sphalm.* Mexico to South America = *Cuphea serpyllifolia* H.B.K.

***DECADENIUM** Raf. New Fl. N. Am. 1:62. 1836, *nom. nov.* Adenaria H.B.K., sub *Adenarium* Raf.=Adenaria H.B.K. (1823).

***DECADONIA** Raf. Act. Soc. Linn. Bordeaux 6:274. 1834, *nota, nom. nov.* Adenaria H.B.K.; Merr. Proc. Am. Philos. Soc. 86:88, 89, *nom.* 1942=Adenaria H.B.K. (1823).

DIDIPLIS Raf. Atl. Jour. 1:177, 1833, *descr.*; Herb. Raf. 23. 1833, *descr.*; New Fl. N. Am. 4:9. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=Peplis Linn. subgen. *Didiplis* (Raf.) Koehne.

linearis Raf. l.c., *descr.*; Act. Soc. Linn. Bordeaux 6:266. 1834, *nom.*, *nota.* (*Peplis diandra* Nutt.); Aut. Bot. 9. 1840, *nom.* (*Peplis diandra* Nutt.). Arkansas=Peplis diandra Nutt. ex DC. (1828) (*Didiplis diandra* Wood).

DIPETALON Raf. Sylva Tellur. 103. 1838, *descr.*=Cuphea P. Browne (1756).

speciosum Raf. l.c., *descr.* (*Lythrum dipetalum* Linn.). South America=Cuphea dipetala (Linn.) Koehne.

EDITELES Raf. Sylva Tellur. 103. 1838, *descr.*=Lythrum Linn. *thymifolia* Raf. l.c., *nom.* (*Lythrum thymifolia* Linn.). Southern Europe, North Africa=Lythrum thymifolia Linn.

ENDECARIA Raf. Sylva Tellur. 102. 1838, *descr.*=Cuphea P. Browne (1756).

coccinea Raf. l.c., *descr.* (*Cuphea llavea* sensu Lindl. Bot. Reg. 23: t. 1386. 1837, non La Llave & Lexarza) non *Cuphea coccinea* DC. (1828). Mexico=Cuphea hookeriana Walp. (1843).

HEXOSTEMON Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Neogen. 3. 1825, *nom. alt.* *Ododeca* Raf. (*Pythagorea* Raf. 1819, non Lour. 1790)=Lythrum Linn. *virgatum* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* (*Lythrum virgatum* Linn.). Europe.

MELFONA Raf. Sylva Tellur. 103. 1838, *descr.*=Cuphea P. Browne (1756).

purpurea Raf. l.c., *nom.* (*Lythrum melanium* Linn.). West Indies=Cuphea melanium (Linn.) R. Br.

MOZULA Raf. Jour. Phys. Chim. Hist. Nat. 91:71. 1820, *nom. nov.* *Pythagorea* Raf. (1819), non Lour. (1790)=Lythrum Linn.

NEXILIS Raf. New Fl. N. Am. 4:9. 1836 [1838], *descr.*=Rotala Linn. (Type *Peplis indica* Willd.=Rotala indica (Willd.) Koehne).

ODODECA Raf. Neogen. 3. 1825, *nom. nov.* *Pythagorea* Raf. 1819, non Lour. 1790; Act. Soc. Linn. Bordeaux 6:267. 1834, *nom.*, subgen. *Lythrum* Linn.=Lythrum Linn.

***PHILEXIA** Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.*=Lythrum Linn.

PYTHAGOREA Raf. Jour. Phys. Chim. Hist. Nat. 89:96. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 237. 1820, *descr.*; Jour. Phys. Chim. Hist. Nat. 91:71. 1820, *nom.* (*Mozula* Raf.); Ann. Gén. Sci. Phys. 7:19. 1820, *nom.*; Act. Soc. Linn. Bordeaux 6:267. 1834, *nom.* (*Ododeca* Raf.); Fl. Tellur. 1:16. 1836 [1837], *nom.* non Lour. (1790)=Lythrum Linn.

alata Raf. ex Jacks*. Ind. Kew. 2:670. 1895 (*Lythrum alatum* Pursh). Central United States.

linearis Raf. ex Jacks*. l.c. (*Lythrum lineare* Linn.). Southeastern United States.

virgata Raf. ex Jacks*. l.c. (*Lythrum virgatum* Linn.). Europe.

QUIRINA Raf. Sylva Tellur. 102. 1838, *descr.*=Cuphea P. Browne (1756).

microphylla Raf. l.c., *descr.* (*Cuphea microphylla* H.B.K.). Tropical America.

RONCONIA Raf. Aut. Bot. 9. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:91. 1921, *nom.*=Ammannia Linn.

triflora Raf. l.c., *descr.* (*Ammannia auriculata* auct.); Pennell, l.c., *nom.*=Ammannia auriculata Willd.

SOTULARIA Raf. Sylva Tellur. 98. 1838, *descr.* (*Catnadamboe* Adans.)=Lagerstroemia Linn.

malabarica Raf. l.c., *nom.* (*Katou-Adamboe* Rheede, Hort. Malabar. 4:47. t. 22. 1683). Malabar=Lagerstroemia hirsuta (Lam.) Willd., sp. dub. sed ut videtur quoad Rheede t. 22, *excl. descr.* Rheede=Lagerstroemia speciosa (Linn.) Pers. (*L. flos-reginae* Retz.).

SONNERATIACEAE

KAMBALA Raf. Sylva Tellur. 19. 1838, *descr.*=Sonneratia Linn. f. (1781).

pendula Raf. l.c., *descr.* (*Sonneratia apetala* Buch.-Ham.). Burma.

MYCOSTYLIS Raf. Sylva Tellur. 19. 1838, *nom. alt.* *Kambala* Raf. (Type *Sonneratia apetala* Buch.-Ham.)=praec.

CRYPTERONIACEAE

***HENSLEVIA** Raf. Alsogr. Am. 30. 1838, *nom.*, *sphalm.*=Henslowia Wall. (1832)=Crypteronia Blume (1826).

RHIZOPHORACEAE

KARKANDELA Raf. Sylva Tellur. 106. 1838, *descr.* (*Karekandel* Adans.)=Carallia Roxb. (1814), *nom. conserv.* (*Karekandel* Adans., 1763; *Diatoma* Lour., 1790; *Barraldeia* Thou., 1806).

malabarica Raf. l.c., *nom.* (*Kare-Kandel* Rheede, Hort. Malabar. 5:25. t. 13. 1678 [*sphalm.* Raf. "Rheede 1. t. 13"]). India=Carallia brachiata (Lour.) Merr. (*C. integerrima* DC.).

RHIZOPHORA Linn.

**mangium* Raf. Ann. Gén. Sci. Phys. 6:80. 1820, *nom.* [prob. *Mangium candelabrium* Rumph. Herb. Amb. 3:108. t. 71, 72. 1743]=Rhizophora apiculata Blume, 1827 (*R. candelaria* DC., 1828).

NYSSACEAE

NYSSA Linn.

ciliata Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 21. 1833, *descr.* Texas=N. sylvatica Marsh.

STREBLINA Raf. Aut. Bot. 74. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1821. Ex *descr.*=Nyssa Linn.

denticulata Raf. op. cit. 75, *descr.*; Pennell, l.c., *nom.* Florida=Nyssa aquatica Linn.

COMBRETACEAE

***CACUCIA** Raf. Sylva Tellur. 99. 1838, *nom.*=Cacoucia Aubl. (1775).

RHIZAERIS Raf. Sylva Tellur. 90. 1838, *descr.*=Laguncularia Gaertn. f. (1805).

alba Raf. l.c., *nom.* (*Conocarpus racemosa* Linn.). West Indies=Laguncularia racemosa (Linn.) Gaertn. f.

SCHOUSBEA Raf. Princ. Somiol. 29. 1814, *nom.*=Schousboea Willd. (1799)=Cacoucia Aubl. (1775).

MYRTACEAE

AGUAVA Raf. Sylva Tellur. 107. 1838, *descr.*=Myrcia DC. (1826).

guianensis Raf. l.c., *nom.* (*Eugenia guianensis* Aubl.). Guiana.

tomentosa Raf. l.c., *nom.* (*Eugenia tomentosa* Aubl.). Guiana=Myrcia tomentosa (Aubl.) DC.

ALLOSTIS Raf. Sylva Tellur. 104. 1838, *descr.*=? Baeckea Linn.

AMYRSIA Raf. Sylva Tellur. 106. 1838, *descr.*=Eugenia Linn. *compressa* Raf. ex Jacks*. Ind. Kew. 1:113. 1893 (*Myrtus compressa* H.B.K.). South America=Eugenia compressa (H.B.K.) DC.

discolor Raf. ex Jacks*. l.c. (*Myrtus discolor* H.B.K.). South America=Eugenia discolor (H.B.K.) DC.

foliosa Raf. ex Jacks*. l.c. (*Myrtus foliosa* H.B.K.). South America=Eugenia foliosa (H.B.K.) DC.

microphylla Raf. ex Jacks*. l.c. (*Myrtus microphylla* Humb. & Bonpl.). South America.

BECKEA St. Hil.=Baeckea Linn.

**chinensis* Raf. Sylva Tellur. 103. 1838, *nom.*=Baeckea chinensis Gaertn.=B. frutescens Linn. Southeastern China.

**densiflora* Raf. l.c., *nom.*=Baeckea densiflora Sm. Australia.

BECKIA Raf. Sylva Tellur. 104. 1838, *nom.* sub. *Allostis* Raf.=Baeckea Linn.

***BURCARDIA** Raf. Sylva Tellur. 106. 1838, *descr.*=Campomanesia Ruiz & Pavon (1797).

**aromatica* Raf.²³ Sylva Tellur. 106. 1838, *nom.* (*Psidium aromaticum* Aubl.). Guiana=Campomanesia aromatica (Aubl.) Griseb.

²³ Both of these binomials are erroneously entered in Index Kewensis 1:361. 1893 under the turneriacous genus *Burcardia* Schreb. (1789)=Piriqueta Aubl. (1775).

BURCARDIA (continued).

- †*grandiflora* Raf. l.c., nom. (*Psidium grandiflorum* Aubl.). Guiana=Campomanesia grandiflora (Aubl.) Sagot.
- CLUACENA** Raf. Sylva Tellur. 104. 1838, descr.=Myrtus Linn.
- myrsinoides* Raf. l.c., nom. (*Myrtus myrsinoides* H.B.K.). Peru.
- vaccinoides* Raf. l.c., nom. (*Myrtus vaccinoides* H.B.K.). Peru.
- ***COLOMPHIS** Raf. Sylva Tellur. 105. 1838, nom. nov. prov. sub *Pimentus saligna* Raf. ([*Arbor alba minor*] Rumph. Herb. Amb. 2:76. t. 17. 1741)=*Melaleuca* Linn., nom. conserv. (*Cajuputi* Adans., 1763).
- CUMETEA** Raf. Sylva Tellur. 106. 1838, descr.=Myrcia DC. (1826).
- alba* Raf. l.c., nom. (*Eugenia coumete* Aubl.). Guiana=Myrcia coumete (Aubl.) DC.
- angustifolia* Raf. op. cit. 107, nom. [*Eugenia angustifolia* Lam.]. Santo Domingo=Eugenia pomifera (Aubl.) Urb. var. angustissima (Berg.) Urb.
- divaricata* Raf. op. cit. 106-107, nom. [*Eugenia divaricata* Lam.]. West Indies=Myrcia splendens (Sw.) DC.
- fragrans* Raf. op. cit. 106, nom. [*Eugenia fragrans* Willd.]. West Indies.
- microphylla* Raf. l.c., nom. [*Eugenia microphylla* A. Rich.]. West Indies.
- mini* Raf. l.c., nom. [*Eugenia mini* Aubl.]. Guiana=Myrcia mini (Aubl.) DC.
- montana* Raf. l.c., nom. [*Eugenia montana* Aubl.]. Guiana.
- multiflora* Raf. l.c., nom. [*Eugenia multiflora* Lam.]. Guiana=Myrcia multiflora (Lam.) DC.
- tomentosa* Raf. l.c., nom. [*Eugenia tomentosa* Aubl.]. Guiana=Myrcia tomentosa (Aubl.) DC.
- ***DISTIXILA** Raf. Sylva Tellur. 106. 1838, nom. subnud. "G[en.] vel subg." (*Myrtus* Linn.)=Myrtus Linn.
- EMURTIA** Raf. Sylva Tellur. 106. 1838, descr.=Eugenia Linn.
- emarginata* Raf. ex Jacks*. Ind. Kew. 1:838. 1893 (*Myrtus emarginata* H.B.K.). Venezuela=Eugenia emarginata (H.B.K.) DC.
- guayaquilensis* Raf. ex Jacks*. l.c. (*Myrtus guayaquilensis* H.B.K.). Ecuador=Eugenia guayaquilensis (H.B.K.) DC.
- micrantha* Raf. ex Jacks*. l.c. (*Myrtus micrantha* H.B.K.) DC. Colombia=Eugenia micrantha (H.B.K.) DC.
- punicifolia* Raf. ex Jacks*. l.c. (*Myrtus puniceifolia* H.B.K.). Venezuela=Eugenia puniceifolia (H.B.K.) DC.
- EPLIENDA** Raf. Sylva Tellur. 107. 1838, descr.=Eugenia Linn.
- sinemariensis* Raf. l.c., nom. (*Eugenia sinemariensis* Aubl.). Guiana.
- EVANESCA** Raf. Sylva Tellur. 105. 1838, descr.=Pimenta Lindl. (1821).
- crassifolia* Raf. l.c., nom. (*Myrtus dioica* Linn.). "America" [Jamaica]=Pimenta dioica (Linn.) Merr. Contr. Gray Herb. 165:37. 1947 (*P. officinalis* Lindl.).
- GOMPHOTIS** Raf. Sylva Tellur. 103. 1838, descr.=Thryptomene Endl. (1838).
- saxicola* Raf. l.c., descr. (*Baeckea saxicola* A. Cunn. ex Hook. Bot. Mag. 69: t. 3160. 1832). Australia=Thryptomene saxicola (A. Cunn.) Schauer.
- LOMASTELMA** Raf. Sylva Tellur. 107. 1838, descr.=Acmena DC. (1828).
- elliptica* Raf. l.c., nom. (*Eugenia elliptica* Sm., non Lam.). Australia=Eugenia smithii Poir.=Acmena smithii (Poir.) Merr. & Perry.
- MALIDRA** Raf. Sylva Tellur. 107. 1838, descr.=Syzygium Gaertn. (1788).
- aquea* Raf. l.c., nom. (*Eugenia aquea* Burm. f.; *Jambosa aquea* Rumph. Herb. Amb. 1:126. t. 38. 1741). Amboina=Syzygium aqueum (Burm. f.) Alston.
- MURRINEA** Raf. Sylva Tellur. 104. 1838, descr. (*Baeckea* sp.)=Baeckea Linn.
- MYRTUS** Linn.
- angustifolia* Raf. Sylva Tellur. 105. 1838, descr., Africa, Asia.
- buxifolia* Raf. op. cit. 104, descr. Greece.
- **italica* Raf. l.c., descr.; Aut. Bot. 149. 1840, nom., nota=Myrtus communis Linn. Europe.
- var. *alba* Raf. Sylva Tellur. l.c., nom.
- betica* Raf. l.c., nom.
- imbricata* Raf. l.c., nom.
- laurifolia* Raf. l.c., nom.
- lusitanica* Raf. l.c., nom.
- nigra* Raf. l.c., nom.

lanceolata Raf. op. cit. 105, descr. Africa.

var. *belgica* Raf. l.c., nom.

latifolia Raf. op. cit. 104, descr. Italy.

var. *romana* Raf. l.c., nom.

tarentana Raf. l.c., nom.

OPANEA Raf. Sylva Tellur. 106. 1838, descr. "Types *M[yr]tus trinervis* Sm. and *billardiana* K."=Rhodamnia Jack²⁴ (1822).

OZANDRA Raf. Aut. Bot. 148. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:95. 1921, nom.=Melaleuca Linn., nom. conserv. (*Cajuputi* Adans., 1763).

**granulata* Raf. l.c., descr. (*Melaleuca thymifolia* Sm.). Australia.

**hyssopifolia* Raf. l.c., descr. (*Melaleuca* "do Sm.," *sphalm.*=*M. hypericifolia* Sm.). Australia.

**thymifolia* Raf. l.c., nom. [*Melaleuca thymifolia* Sm.]. Australia.

PIMENTUS Raf. Sylva Tellur. 105. 1838, descr.=Pimenta Lindl. (1821).

aromatica Raf. ex Jacks*. Ind. Kew. 2:527. 1894 (*Greggia aromatica* Gaertn.). West Indies=Eugenia greggii Poir.

cotinifolia Raf. Sylva Tellur. 105. 1838, descr. (*Myrtus cotinifolia* Plum. Pl. Am. 203. t. 208. f. 2. 1759 [=Myrtus cotinifolia J. F. Gmel.]; *Myrtus acris* Sw.). West Indies=Myrcia citrifolia (Aubl.) Urban.

geminata Raf. l.c., descr. (*Myrtus pomifera*, alia, *foliis longis & angustis* Plum. op. cit. 202. f. 2. 1759). West Indies=Eugenia pomifera (Aubl.) Urb.

gregia Raf. ex Jacks*. Ind. Kew. 2:527. 1894 (*Myrtus gregia* Sw.). West Indies=Eugenia greggii Poir.

laurina Raf. Sylva Tellur. l.c., descr. (*Myrtus laurina* Retz.; *Laurus serrata*, *floribus spicatis* Burm. Thes. Zeyl. 139. t. 62. 1737; *Eugenia laurina* Willd.). Ceylon=Symplocos spicata Roxb. (1814, 1832) (Symlocaceae).

saligna Raf. l.c., descr. (*Myrtus saligna* Burm. f.; *Arbor minor* Rumph. Herb. Amb. 2:76. t. 17. 1741). Moluccas=Melaleuca leucadendra Linn.; see Merrill, Interpret. Rumph. Herb. Amb. 402. 1917.

triflora Raf. l.c., descr. (*Myrtus triflora* Jacq.). Colombia=Eugenia triflora (Jacq.) Ham.

vera Raf. l.c., nom., nota (*Myrtus pimenta* Linn.). West Indies=Pimenta officinalis Lindl.

PSIDIUM Linn.

**cuiavilus* Raf. Sylva Tellur. 106. 1838, descr. (*Cujavillus* Rumph. Herb. Amb. 1:145. t. 49. 1741)=Psidium cujavillus Burm. f.; see Merrill, Interpret. Rumph. Herb. Amb. 391. 1917.

TRIPLARINA Raf. Sylva Tellur. 104. 1838, descr.=Baeckea Linn.

camphorata Raf. l.c. descr. (*Baeckea camphorata* R. Br., Hook. Bot. Mag. 53: t. 2694. 1826). Australia.

MELASTOMATACEAE

ABROPHAES Raf. Sylva Tellur. 99. 1838, descr.=Miconia Ruiz & Pavon (1794), nom. conserv. (*Tamonea* Aubl., 1775; *Leonicenia* Scop., 1777; *Zulatia* Neck., 1790).

mirabilis Raf. l.c., descr. (*Fothergilla mirabilis* Aubl.; *Melastoma tamonea* Sw.). Guiana=Miconia dodecandra (Desr.) Cogn.

***ACINODENDRON** Raf. Sylva Tellur. 94. 1838, descr.=Acinodendrum Linn. (1737)=Miconia Ruiz & Pavon (1794), nom. conserv.

**aureum* Raf. l.c., descr. (*Melastoma* sp. Sm.). Guiana=? Miconia sp.

**cymosum* Raf. l.c., descr. (*Melastoma acinodendron* Linn.). West Indies=Miconia acinodendron (Linn.) Sweet.

**laxiflorum* Raf. l.c., descr. (*Melastoma acinodendron* Linn.). South America=Miconia acinodendron (Linn.) Sweet.

ACINODENDRUM Linn. (1737)=Miconia Ruiz & Pavon (1794), nom. conserv.

²⁴ *Opa* Lour. cited by Rafinesque as a synonym of *Opanea*, is in part, as to *Opa odorata* Lour., *Syzygium* Gaertn. (*Opa odorata* Raf.=*Syzygium odoratum* (Lour.) DC.; see Merr. & Perry, Jour. Arnold Arb. 19:102. 1938), and in part, as to *Opa metrosideros* Lour., *Raphiolepis* Lindl. (*O. metrosideros* Lour.=*Raphiolepis indica* (Linn.) Lindl.); see Merrill, Trans. Am. Philos. Soc. II. 24(2): 179, 285-286. 1935. *Myrtus trinervis* Sm. is *Rhodamnia trinervis* Jack and *Myrtus billardiana* H.B.K. is *Myrcia billardiana* (H.B.K.) DC.

- aureum Raf. ex Jacks*. Ind. Kew. 1:28. 1893=? *Miconia* sp. Guiana.
- cymosum Raf. ex Jacks*. l.c.=*Miconia acinodendron* (Linn.) Sweet. Guiana.
- laxiflorum Raf. ex Jacks*. l.c.=*Miconia acinodendron* (Linn.) Sweet. Guiana.
- ACINOLIS** Raf. Sylva Tellur. 95. 1838, *descr.*=*Miconia* Ruiz & Pavon (1794), *nom. conserv.*
- elliptica Raf. op. cit. 95, *descr.* (*Melastoma squamulosum* Sm.). Colombia=*Miconia squamulosa* (Sm.) Triana.
- ALIFANA** Raf. Sylva Tellur. 101. 1838, *descr.*=*Brachyotum* Triana (1867).
- canescens Raf. l.c., *nom.* (*Rhexia canescens* Humb. & Bonpl.). Colombia=*Brachyotum canescens* (Humb. & Bonpl.) Triana.
- lutescens Raf. l.c., *nom.* (*Rhexia lutescens* Ruiz & Pavon). Peru=*Brachyotum lutescens* (Ruiz & Pavon) Triana.
- montana Raf. l.c., *nom.* ("Rhex[ia] polypetala R. P." *sphalm.*, an *Rhexia polystachya* Humb. & Bonpl.?). South America.
- striata Raf. l.c., *nom.* (*Rhexia stricta* Humb. & Bonpl.). Colombia=*Brachyotum strigosum* (Linn. f.) Triana.
- ALOSEMIS** Raf. Sylva Tellur. 96. 1838, *descr.*=*Rhynchanthera* DC. (1828), non Blume (1825), *nom. conserv.*
- grandiflora Raf. l.c., *nom.*, *sphalm.* *Aloseris* (*Melastoma grandiflorum* Aubl.). South America=*Rhynchanthera grandiflora* (Aubl.) DC.
- villosa Raf. l.c., *descr.* (*sphalm.*, *Aloseris*): (*Melastoma *villosum* Lodd. Bot. Cab. 9: t. 853. 1824; Sims, Bot. Mag. 53: t. 2630. 1826, non Aubl. (1775). "South America" [Indo-China]=*Melastoma saigonense* (O. Kuntze) Merr. Jour. Arnold Arb. 29:262. 1948.
- zeylanica Raf. l.c., *nom.* (*Melastoma octandrum* Linn.). India, Ceylon=*Osbeckia octandra* (Linn.) DC.
- ***ALOSERIS** Raf. Sylva Tellur. 96. 1838, *nom.*=*praec.*
- *grandiflora Raf. l.c., *descr.*, *sphalm.* [*Alosemis grandiflora* Raf.] (*Melastoma grandiflorum* Aubl.). South America=*Rhynchanthera grandiflora* (Aubl.) DC.
- ANTHERYTA** Raf. Sylva Tellur. 95. 1838, *descr.*=*Tibouchina* Aubl. (1775).
- granulosa Raf. op. cit. 96. *descr.* (*Melastoma granulosum* Desr.; Ker-Gawl. Bot. Reg. 8: t. 671. 1822; Sims, Bot. Mag. 51: t. 2441. 1824. Brazil=*Tibouchina granulosa* (Desr.) Cogn.
- ANTISOLA** Raf. Sylva Tellur. 97. 1838, *descr.*=*Miconia* Ruiz & Pavon (1794), *nom. conserv.* (*Tamonea* Aubl., 1775; *Zulatia* Neck., 1790).
- racemosa Raf. l.c., *descr.* (*Melastoma tetrandrum* Sw.). Jamaica=*Miconia tetrandra* (Sw.) Naud.
- AULIPHAS** Raf. Sylva Tellur. 95. 1838, *descr.*=*Miconia* Ruiz & Pavon (1794), *nom. conserv.* (*Tamonea* Aubl. 1775; *Zulatia* Neck., 1790).
- ligustrina Raf. l.c., *descr.* (*Melastoma ligustrinum* Sm.). Colombia=*Miconia ligustrina* (Sm.) Triana.
- BELLUCIA** Neck.; Raf. Sylva Tellur. 93. 1838, *descr.*, non Adans., 1763, *nom. conserv.* (*Apatitia* Desv., 1825).
- nervosa Raf. l.c., *descr.* (*Blakea triplinervia* Linn.; *B. quinquevneria* Aubl.). Guiana=*Bellucia grossularioides* (Linn.) Triana.
- BOLINA** Raf. Sylva Tellur. 101. 1838, *descr.*, *nom. nov.* *Bertolonia* Raddi (1820), non Spin. (1809), nec Raf. (1818)=*Bertolonia* Raddi (1820), *nom. conserv.* (*Tribrema* R. Br., 1830).
- conferta Raf. l.c., *nom.* (*Rhexia conferta* Humb. & Bonpl.). Ecuador, Peru=*Centronia excelsa* (Spreng.) Triana.
- CLASTILIX** Raf. Sylva Tellur. 99. 1838, *descr.*=*Miconia* Ruiz & Pavon (1794), *nom. conserv.* (*Tamonea* Aubl., 1775; *Zulatia* Neck., 1790).
- mexicana Raf. l.c., *nom.* (*Melastoma mexicanum* Humb. & Bonpl.). Mexico=*Miconia mexicana* (Humb. & Bonpl.) Naud.
- tunicata Raf. l.c., *nom.* (*Melastoma tunicatum* Humb. & Bonpl.)=*Miconia tunicata* (Humb. & Bonpl.) Naud. Peru? Mexico?
- DANCERA** Raf. Sylva Tellur. 93. 1838, *descr.*=*Clidemia* D. Don (1823).
- hirta Raf. l.c., *nom.* (*Melastoma hirtum* Linn.). Tropical America=*Clidemia hirta* (Linn.) D. Don.
- DEROSIPHIA** Raf. Sylva Tellur. 101. 1838, *descr.*=*Osbeckia* Linn., sect. *Pseudodissotis* Cogn. (1891).
- tubulosa Raf. ex Jacks*. Ind. Kew. 1:734. 1893 (*Osbeckia tubulosa* Sm.). Africa.
- DUPINETA** Raf. Sylva Tellur. 101. 1838, *descr.*=*Osbeckia* Linn., sect. *Pseudodissotis* Cogn. (1891).
- multiflora Raf. ex Jacks*. Ind. Kew. 1:804. 1893 (*Osbeckia multiflora* Sm.). Sierra Leone, Angola.
- EPHYNES** Raf. Sylva Tellur. 101. 1838, *descr.*=*Monochaetum* (DC.) Naud. 1845 (DC. ut sect. *Rhexia*, 1828), *nom. conserv.* (*Ephynes* Raf., 1838).
- bonplandii Raf. l.c., *nom.* (*Rhexia bonplandii* Humb. & Bonpl.). Peru, Ecuador, Venezuela=*Monochaetum bonplandii* (Humb. & Bonpl.) Naud.
- EUSTEGIA** Raf. Sylva Tellur. 95. 1838, *descr.*=*Conostegia* D. Don (1823).
- mutisi Raf. l.c., *descr.* (*Melastoma mutisii* Humb. & Bonpl.). Colombia=*Centronia mutisii* (Humb. & Bonpl.) Triana.
- pulverulenta Raf. l.c., *descr.* (*Melastoma extintorium* Humb. & Bonpl.). Colombia=*Conostegia extintoria* (Humb. & Bonpl.) D. Don.
- tomentosa Raf. l.c., *descr.* (*Melastoma xalapense* Humb. & Bonpl.). Mexico=*Conostegia xalapensis* (Humb. & Bonpl.) D. Don.
- EXODICLIS** Raf. Sylva Tellur. 97. 1838, *descr.*=*Acisanthera* P. Browne (1756).
- angustifolia Raf. l.c., *nom.* (*Melastoma trivalve* Aubl.; *Rhexia trivalvis* Vahl). Guiana=*Acisanthera trivalvis* (Aubl.) Cogn.
- latifolia Raf. l.c., *nom.* (*Melastoma bivalve* Aubl.; *Rhexia bivalvis* Vahl). South America=*Acisanthera bivalvis* (Aubl.) Cogn.
- FOLOMFIS** Raf. Sylva Tellur. 97. 1838, *descr.*=*Miconia* Ruiz & Pavon (1794), *nom. conserv.* (*Tamonea* Aubl., 1775; *Zulatia* Neck., 1790).
- fragilis Raf. ex Jacks*. Ind. Kew. 1:972. 1893 (*Melastoma fragile* Linn. f.). Guiana=*Miconia acinodendron* (Linn.) Sweet.
- GONEMA** Raf. Sylva Tellur. 96. 1838, *descr.*=*Ossaea* DC. (1828).
- divaricata Raf. l.c., *nom.* [*Melastoma divaricatum* Willd.]. Malaya=*Anplectrum divaricatum* (Willd.) Triana.
- scabrosa Raf. l.c., *nom.* (*Melastoma scabrosum* Linn.). West Indies=*Ossaea scabrosa* (Linn.) DC.
- GYNOMPHIS** Raf. Sylva Tellur. 98. 1838, *descr.*=*Tibouchina* Aubl. (1775).
- argentea Raf. l.c., *descr.* (*Melastoma argenteum* Desr.; *Rhexia holosericea* Humbl. & Bonpl. Monog. Melast. 1:29, t. 12. 1816; Ker-Gawl. Bot. Reg. 4: t. 323. 1818). Brazil=*Tibouchina holosericea* (Sw.) Baill.
- HEDUSA** Raf. Sylva Tellur. 101. 1838, *descr.*=*Dissotis* Benth. (1849), *nom. conserv.* (*Hedusa* Raf., 1838; *Hedysa* O. Kuntze, 1891).
- grandiflora Raf. ex Jacks*. Ind. Kew. 1:1099. 1893 (*Osbeckia grandiflora* Afzel ex Sm.). Tropical Africa=*Dissotis grandiflora* (Afzel ex Sm.) Benth.
- KADALIA** Raf. Sylva Tellur. 101. 1838, *descr.*=*Dissotis* Benth. (1849), *nom. conserv.* (*Hedusa* Raf., 1838; *Hedysa* O. Kuntze, 1891).
- antennina Raf. ex Jacks*. Ind. Kew. 2:1. 1894 (*Osbeckia antennina* Sm.). Sierra Leone=*Dissotis antennina* (Sm.) Triana.
- rotundifolia Raf. ex Jacks*. l.c. (*Osbeckia rotundifolia* Sm.). Tropical Africa=*Dissotis rotundifolia* (Sm.) Triana.
- LOMANODIA** Raf. Sylva Tellur. 97. 1838, *descr.*=*Astronidium* A. Gray (1854) (*Naudiniella* Krasser, 1893).
- glabra Raf. l.c., *nom.* (*Melastoma glabrum* Forst. f.). Society Islands=*Astronidium glabrum* (Forst. f.) Markgr. (*Astronia glabra* Triana).
- mucronata Raf. l.c., *nom.* (*Melastoma mucronatum* Desr.). South America=*Miconia holosericea* (Linn.) Triana.
- LOMANTHERA** Raf. Sylva Tellur. 96. 1838, *descr.*=*Tetrazygia* L. C. Richard (1828).
- glandulosa Raf. l.c., *nom.* (*Melastoma glandulosum* Sw.). Jamaica=*Tetrazygia hispida* (Sw.) Macfad.
- MALABATHRIS** Raf. Sylva Tellur. 97. 1838, *descr.*=*Melastoma* Linn.
- cyanooides Raf. l.c., *nom.* (*Melastoma cyanooides* Sm.). Moluccas=*Otanthera cyanooides* (Sm.) Triana.
- nigra Raf. l.c., *nom.* (*Melastoma malabathricum* Linn.). India.
- MELASTOMA** Linn.
- *axillare Raf. Sylva Tellur. 97. 1838, *nom.* sub *Ocotella* Raf.
- *jalapense Raf. op. cit. 95, *nom.* sub *Eustegia tomentosa* Raf., *sphalm.*=*Melastoma xalapense* Humb. & Bonpl.=*Conostegia xalapensis* (Humb. & Bonpl.) D. Don. Mexico.

- ***MURIRIA** Raf. Sylva Tellur. 99. 1838, *nom.*=Mouriria Juss. (1789).
- OCTELLA** Raf. Sylva Tellur. 96. 1838, *descr.*=*Melastoma* Linn.
- alpina* Raf. ex Jacks*. Ind. Kew. 2:327. 1894 (*Melastoma alpinum* Sw.). West Indies=Charianthus coccineus (L. C. Rich.) D. Don.
- angustifolia* Raf. ex Jacks*. l.c. (*Melastoma angustifolium* Sw.). West Indies=Tetrazygia angustifolia (Sw.) DC.
- axillaris* Raf. ex Jacks*. l.c. (*Melastoma axillare* Raf.). Quid?
- capillaris* Raf. ex Jacks*. l.c. (*Melastoma capillare* Sw.). Jamaica=Clidemia capillaris (Sw.) Griseb.
- coccinea* Raf. ex Jacks*. l.c. (*Melastoma coccineum* L. C. Rich.). West Indies=Charianthus coccineus (L. C. Rich.) D. Don.
- fascicularis* Raf. ex Jacks*. l.c. (*Melastoma fasciculare* Sw.). West Indies=Henriettella fascicularis (Sw.) Triana.
- glabrata* Raf. ex Jacks*. l.c. (*Melastoma glabratum* Sw.). Jamaica=Calycogonium glabratum (Sw.) DC.
- hispida* Raf. ex Jacks*. l.c. (*Melastoma hispidum* Sw.). Jamaica=Tetrazygia hispida (Sw.) Macfad.
- lateriflora* Raf. ex Jacks*. l.c. (*Melastoma lateriflorum* Vahl). West Indies=Henriettella lateriflora (Vahl) Triana.
- microphylla* Raf. ex Jacks*. l.c. (*Melastoma microphyllum* Sw.). Jamaica=Ossaea microphylla (Sw.) Triana.
- repens* Raf. ex Jacks*. l.c. (*Melastoma repens* Desr.). Southern China=Melastoma dodecandrum Lour.
- umbrosa* Raf. ex Jacks*. (*Melastoma umbrosum* Sw.). Jamaica=Clidemia umbrosa (Sw.) Cogn.
- vaccinioides* Raf. ex Jacks*. l.c. (*Melastoma vaccinioides* Humb. & Bonpl.). Peru=Miconia vaccinioides (Humb. & Bonpl.) Naud.
- verticillata* Raf. ex Jacks*. l.c. (*Melastoma verticillatum* Vahl). West Indies=Clidemia verticillata (Vahl) DC.
- virgata* Raf. ex Jacks*. l.c. (*Melastoma virgatum* Sw.). Jamaica=Mecranium virgatum (Sw.) Triana.
- OCTONUM** Raf. Sylva Tellur. 95. 1838, *descr.*=*Heterotrichum* DC. (1828).
- **humboldi* Raf. l.c., *nom.* (*Melastoma octonum* Humb. & Bonpl.). South America=Heterotrichum octonum (Humb. & Bonpl.) DC.
- humboldti* Raf. ex Jacks*. Ind. Kew. 2:328. 1894=praec.
- OXISMA** Raf. Sylva Tellur. 94. 1838, *descr.*=Loreya DC. (1828).
- arborescens* Raf. l.c., *nom.*, *nota* (*Melastoma arborescens* Aubl.). Guiana=Loreya arborescens (Aubl.) DC.
- flavescens* Raf. l.c., *nom.*, *nota* (*Melastoma flavescens* Aubl.). Guiana=Henriettella flavescens (Aubl.) Triana.
- PHOLOMPHIS** Raf. Sylva Tellur. 97. 1838, *nom. alt.* *Folomfis* Raf.=Miconia Ruiz & Pavon (1794), *nom. conserv.*
- RHEXIA** Linn.
- ludoviciana* Raf. Fl. Ludovic. 92. 1817, *descr.* (Anonyme, Rob. Voy. Louis. 3:483. 1807). Louisiana=? R. mariana Linn.
- obtusata* Raf. Med. Repos. II. 5:354. 1808, *nom.* Central Atlantic United States.
- **polypetala* Raf. Sylva Tellur. 101. 1838, *nom. sub* *Alifana* Raf. Prob.=Rhexia polystachya Humbl. & Bonpl. South America.
- rosea* Raf. Med. Repos. l.c., *nom.* Central Atlantic United States.
- ***SAVASTANA** Raf. Sylva Tellur. 100. 1838, *descr.*=Savastania Scop. (1777)=Tibouchina Aubl. (1775).
- **aspera* Raf. l.c., *nom.* (*Tibouchina aspera* Aubl.; *Melastoma aromaticum* Vahl; *Rhexia aspera* Willd.). South America=Tibouchina aspera Aubl.
- SERICOLA** Raf. Sylva Tellur. 93. 1838, *descr.*=Miconia Ruiz & Pavon. (1794), *nom. conserv.*
- brachiata* Raf. op. cit. 94, *nom.* (*Melastoma holosericeum* Linn.). Brazil=Miconia holosericea (Linn.) Triana.
- SYNODON** Raf. Sylva Tellur. 95. 1838, *descr.*=Conostegia D. Don (1823).
- calyptrata* Raf. l.c., *nom.* (*Melastoma calyptratum* Desr.). West Indies=Conostegia calyptrata (Desr.) D. Don.
- montana* Raf. l.c., *nom.* (*Melastoma montanum* Sw.). West Indies=Conostegia montana (Sw.) D. Don.
- SYNOPTERA** Raf. Sylva Tellur. 98. 1838, *descr.*=Miconia Ruiz & Pavon (1794), *nom. conserv.*

levigata Raf. l.c., *nom.* (*Melastoma laevigatum* Linn.). West Indies, Mexico, South America=Miconia laevigata (Linn.) DC.

***TIBUCHINA** Raf. Sylva Tellur. 99. 1838, *nom.*=Tibouchina Aubl. (1775).

XERACINA Raf. Sylva Tellur. 98. 1838, *descr.*=Adelobotrys DC. (1828).

aquatica Raf. l.c., *nom.* (*Melastoma aquaticum* Aubl.). Guiana=Nepsera aquatica (Aubl.) Naud.

scandens Raf. l.c., *nom.* (*Melastoma scandens* Aubl.). Guiana=Adelobotrys scandens (Aubl.) DC.

villosa Raf. l.c., *nom.* (*Melastoma villosum* Aubl.). Guiana=Desmocelia villosa (Aubl.) Naud.

ZIEGERA Raf. Sylva Tellur. 94. 1838, *descr.*=Miconia Ruiz & Pavon (1794), *nom. conserv.*

levigata Raf. l.c., *nom.* (*Melastoma laevigatum* Linn.) West Indies=Miconia laevigata (Linn.) DC.

ZULATIA Neck.; Raf. Sylva Tellur. 97. 1838, *descr.*=Miconia Ruiz & Pavon (1794), *nom. conserv.*

alata Raf. l.c., *nom.* (*Melastoma alatum* Aubl.). Guiana=Miconia alata (Aubl.) DC.

grandiflora Raf. l.c., *nom.* (*Melastoma grandiflorum* Aubl.). Guiana=Rhynchanthera grandiflora (Aubl.) DC.

levigata Raf. l.c., *nom.* (*Melastoma laevigatum* Aubl.). Guiana=Miconia prasina (Sw.) DC.

ONAGRACEAE

ADENOLA Raf. Aut. Bot. 36. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.*=Jussiaea Linn.

**glaucata* Raf. op. cit. 37, *descr.* (*Jussiaea leptocarpa* Nutt.). Alabama to Louisiana=Jussiaea leptocarpa Nutt.

grandiflora Raf. l.c., *descr.* (*Jussiaea grandiflora* Michx.); Pennell, l.c., *nom.* Florida=Jussiaea grandiflora Michx.

**longipes* Raf. op. cit. 37. 1840, *descr.* (*Ludwigia pedunculosa* auct.). Florida, Louisiana. Ex descr.=Jussiaea repens Linn. var. glabrescens O. Kuntze fide Munz in lit.

***CHAMERION** Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom.*, gen. vel subgen. (*Epilobium angustifolium* sensu Pursh)=Chamaenerion Adans. (1763)=Epilobium Linn.

**macrocarpon* Raf. Herb. Raf. 51. 1833, *nom. alt.* *Epilobium macrocarpon* Raf. Rocky Mountains or Oregon.

***CIRCAEA** Raf. Am. Monthly Mag. Crit. Rev. 2:344. 1818, *nom.*=Circaea Linn.

**canadensis* Raf. l.c., *nom.* (*Circaea lutetiana* sensu Bigelow). New England=Circaea canadensis Muhl.=Circaea lutetiana Linn.

**lutetiana* Raf. l.c. *nom.* Europe, North America=Circaea lutetiana Linn.

**tenella* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.

DIPLANDRA Raf. Aut. Bot. 35. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.*, non Bert. (1830), nec Hook. & Arn. (1837)=Jussiaea Linn.

**compressa* Raf. op. cit. 36, *descr.* Florida=seq.

decurrens Raf. op. cit. 35, *descr.* (*Ludwigia decurrens* Walt.; *L. jussiaeoides* Michx.; *Jussiaea erecta* sensu Abbott & Smith, Nat. Hist. Lepidopt. Insects Georgia 1: t. 40. 1797); Pennell, l.c., *nom.* Carolina to Missouri=Jussiaea decurrens (Walt.) DC.

**heterophylla* Raf. l.c., *descr.* Louisiana=praec.

**montana* Raf. op. cit. 36, *descr.* Unaka Mountains, North Carolina=praec.

**ovata* Raf. l.c., *descr.* (*Jussiaea grandiflora* sensu Raf. Fl. Ludovic. 96. 1817, non Michx. fide Raf.). Louisiana=Jussiaea decurrens (Walt.) DC.

**pumila* Raf. l.c., *descr.* Florida=praec.

***EATONIA** Riddell ex Raf. Aut. Bot. 37. 1840, *nom.* in syn. sub *Adenola* Raf.=Jussiaea Linn.

**amphibia* Riddell ex Raf. l.c., *nom.* in syn.=Adenola longipes Raf.=Jussiaea repens Linn. var. glabrescens O. Kuntze. Florida, Louisiana.

EPILOBIUM Linn.

amoenum Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* (*amaenum*); Am. Monthly Mag. Crit. Rev. 2:266. 1818 (*amenum*), *nom.*, *nota* (*E. angustifolium* sensu Pursh). Eastern United States=E. angustifolium Linn.

cerulescens Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* (*coerulescens*). Eastern United States.

- ciliatum* Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:229. 1809, *descr.* Pennsylvania (*E. americanum* Haussk., 1879); see Fernald, *Rhodora* 46:383. 1944.
- densum* Raf. Précis Découv. Somiol. 42. 1814, *descr.*; Jour. Bot. (Desv.) 4:271. 1814, *descr.* Maryland=*E. strictum* Muhl. (1813); see Fernald, *Rhodora* 46:381-382. 1944.
- divaricatum* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*; Précis Découv. Somiol. 42. 1814, *descr.*; Jour. Bot. (Desv.) 4:271. 1814, *descr.*; Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.* Pennsylvania, Maryland=? *E. coloratum* Muhl.
- leptophyllum* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*; Précis Découv. Somiol. 41. 1814, *descr.*; Jour. Bot. (Desv.) 4:271. 1814, *descr.* Pennsylvania, Maryland (*E. rosmarinifolium* Pursh, non Haenke); see Fernald, *Rhodora* 46:378, 383. 1944.
- **macrocarpon* Raf. Herb. Raf. 51. 1833, *nom. alt.* *Chamerion macrocarpon* Raf. Rocky Mountains or Oregon.
- obtusiusculum* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Eastern United States.
- tenellum* Raf. Précis Découv. Somiol. 41. 1814, *descr.*; Jour. Bot. (Paris) 4:271. 1814, *descr.*; Act. Soc. Linn. Bordeaux 6:266. 1834, *nom.*, *nota* (*E. alpinum* auct. Am.). Pennsylvania=*E. leptophyllum* Raf. (1808); see Fernald, *Rhodora* 46:378. 1944.
- GAURA** Linn.
- **missurica* Raf. Herb. Raf. 40. 1833, *nom.* (*G. coccinea* Nutt.). Upper Missouri (Mandan country)=Dakota=Gaura *coccinea* Nutt.
- multicaulis* Raf. Atl. Jour. 1:146. 1832, *nom.* (*G. coccinea* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:200. 1827). Loup Fork of the Platte River=Gaura *coccinea* Nutt.
- ISNARDIA** Linn.=Ludwigia Linn.
- **angustifolia* Raf. Aut. Bot. 38. 1840, *nom.*, *nota* (*Ludwigia angustifolia* Michx.; *L. linearis* Walt.). Southeastern United States.
- **glandulosa* Raf. l.c., *nom.*, *nota* (*Ludwigia glandulosa* Walt.). Carolina, Florida.
- JUSSIEVA** Gleditsch=Jussiaea Linn.
- **erecta* Raf. Aut. Bot. 35. 1840, *nom.* sub *Diplandra decurrens* Raf.=Jussiaea *decurrens* (Walt.) DC.
- **trachisperma* Raf. op. cit. 36, *nom.* sub *Diplandra compressa* Raf. Florida=praec.
- LOPEZIA** Cav.
- **bracteata* Raf. Aut. Bot. 13. 1840, *descr.* New Mexico.
- LUDWIGIA** Linn.
- aurantiaca* Raf. Med. Repos. II. 5:358. 1808, *descr.*; Jour. Bot. (Paris) 1:224. 1809, *descr.* Delaware, Pennsylvania=*L. alternifolia* Linn.
- hirtella* Raf. Med. Repos. l.c., *descr.*; Jour. Bot. (Paris) 1:223. 1809, *descr.*; Aut. Bot. 38. 1840, *descr.* (*L. hirsuta* Pursh); Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* Maryland, New Jersey; see Fernald, *Rhodora* 39:436. 1937.
- juncea* Raf. Aut. Bot. 38. 1840, *descr.* Alabama=? *L. alternifolia* Linn.
- **justicoides* Raf. op. cit. 35, *nom.* sub *Diplandra decurrens* Raf., *sphalm.*=Ludwigia *jussiaeoides* Michx.=Jussiaea *decurrens* (Walt.) DC.
- pruinosa* Raf. op. cit. 38, *descr.* Alleghany Mountains and Kentucky.
- tuberosa* Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 60. 1833, *nom.* Ohio River (West Virginia and Kentucky)=? *L. virgata* Michx.
- uniflora* Raf. Med. Repos. II. 5:358. 1808, *descr.*; Jour. Bot. (Paris) 1:224. 1809, *descr.* New Jersey=? *L. alternifolia* Linn.
- MERIOIX** Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.*, *nota*=Calylophus Spach (1835)=Oenothera Linn.
- serrulata* Raf. ex Jacks*. Ind. Kew. 2:212. 1894 (*Oenothera serrulata* Nutt.); est M. **serrulata* Walp. Repert. 2:79. 1843. North America.
- OENOTHERA** Linn.
- alata* Raf. Fl. Ludovic. 95. 1817, *descr.* (*Oenothera* 1, Rob. Voy. Louis. 3:489. 1807). Louisiana=Jussiaea *decurrens* (Walt.) DC.
- **aurea* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
- **brevicaulis* Raf. l.c., *nom.* Kentucky or Illinois.
- **costata* Raf. op. cit. 51, *nom.* Rocky Mountains or Oregon.
- cuneifolia* Raf. Atl. Jour. 1:147. 1832, *descr.* Florida=? *O. humifusa* Nutt.
- **fascicularis* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
- **fasciculata* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- **heterophylla* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
- **levigata* Raf. op. cit. 48, *descr.* Rocky Mountains or Oregon. Ex *descr.*=? *Clarkia rhomboidea* Dougl. fide Munz in lit.
- **maculata* Raf. op. cit. 47, *descr.* Rocky Mountains or Oregon.
- **odanisa* Raf. op. cit. 62, *nom.* Kentucky or Illinois.
- **onosmifolia* Raf. l.c., *nom.* Kentucky or Illinois.
- pilosella* Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 62. 1833, *nom.* Indiana (*O. pratensis* B. L. Robins.; *Kneiffia pratensis* Small).
- **rhomboidalis* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
- **rubra* Raf. op. cit. 51, *nom.* Rocky Mountains or Oregon.
- **rubricaulis* Raf. op. cit. 62, *nom.* Kentucky or Illinois.
- **tenessica* Raf. l.c., *nom.* Tennessee.
- **undulata* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Eastern United States.
- uniflora* Raf. l.c., *nom.*; Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.* New Jersey.
- **viscosa* Raf. Fl. Ludovic. 96. 1817, *descr.* (*Onagre visqueuse* Rob. Voy. Louis. 3:96. 1807). Louisiana=? *Oenothera drummondii* Hook.
- ONOSURIS** Raf. Fl. Ludovic. 95. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.*=*Oenothera* Linn.
- acuminata* Raf. op. cit. 96, *descr.* (*Oenothera* 3, Rob. Voy. Louis. 3:490. 1807). Louisiana=? *Oenothera biennis* Linn.
- **alba* Raf. Herb. Raf. 40. 1833, *nom.* Upper Missouri (Mandan country)=Dakota.
- **sinuata* Raf. op. cit. 47, *descr.*, 51, *nom.* 1833. Rocky Mountains or Oregon. Prob.=*Oenothera albicaulis* Pursh (*O. pinnatifida* Nutt.), fide Munz in lit.
- PLEURANDRA** Raf. Fl. Ludovic. 95. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom.*, non Labill. (1806)=seq. *alba* Raf. l.c., *descr.* (*Oenothera* 2, Rob. Voy. Louis. 3:490. 1807); Herb. Raf. 55. 1833, *nom.* Louisiana=Gaura *angustifolia* Michx.
- PLEUROSTEMON** Raf. Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom. nov.* *Pleurandra* Raf. (1817), non *Pleurandra* Labill. (1806); DC. Prodr. 3:64. 1828, *descr.*=Gaura Linn.
- †*album* Raf. ex DC. Prodr. 3:64. 1828 [*Pleurandra alba* Raf.]. Louisiana=Gaura *angustifolia* Michx. (incl. *G. filiformis* Small).
- #**TERESPERMA** Raf. Aut. Bot. 37. 1840, *nom. nov. provis.*, subgen. *Adenola* Raf.=Jussiaea Linn.
- ***TUCHSIA** Raf. Am. Monthly Mag. Crit. Rev. 4:187. 1819, *nom.*, *sphalm.*=Fuchsia Linn.

HALORRHAGIDACEAE

- BURSHIA** Raf. Med. Repos. II. 3:422. 1806; *nom.*; op. cit. II. 5:357. 1808, *descr.*; Jour. Bot. (Paris) 1:219. 1809, *descr.*=*Myriophyllum* Linn.
- humilis* Raf. l.c., *nom.*, *descr.*; Gerard, Bull. Torr. Bot. Club. 12:37. 1885, *nom.* New Jersey, Delaware=*Myriophyllum humile* (Raf.) Morong.
- PROSERPINACA** Linn.
- **heterophylla* Raf. Aut. Bot. 176. 1840, *descr.* New York, New Jersey=*P. palustris* Linn.
- **serrata* Raf. l.c., *descr.*, *nom. nov.* *Proserpinaca palustris* Linn. New England to Kentucky.
- **tuberculata* Raf. l.c., *descr.* Alabama=*P. pectinata* Lam.
- ***PTILOPHYLLUM** "Raf. Nov. Gen. 1811" ex S. Wats. Bibl. Ind. N. Am. Pl. 1:356. 1878, *nom.* in syn.=*Myriophyllum* Linn. subgen. *Ptilophyllum* Nutt. Gen. N. Am. Pl. 2:211. 1818=*Myriophyllum* Linn.
- **humile* Raf. ex S. Wats. l.c., *nom.* in syn.=*Myriophyllum humile* (Raf.) Morong. New Jersey.
- †**PURSHIA** Raf. Anal. Nat. Tabl. Univ. 195. 1815, *nom.*; Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.* (*Ptilophyllum* Nutt. 1818, subgen. *Myriophyllum* Linn.); Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.* (*Ptilophyllum* Nutt., 1818, subgen. *Myriophyllum* Linn.); Act. Soc. Linn. Bordeaux 6:266. 1834, *nom.*, *nota* (*Ptilophyllum* Nutt., subgen. *Myriophyllum* Linn.)=*Purshia* Raf. (1806, *nom.*, 1808, *descr.*)=*Myriophyllum* Linn.

HIPPURIDACEAE

- CAULLINIA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.*=*Hippuris* Linn.
hippurioides Raf. l.c., *nom.* ("Hippuris europeus, b. Mich."); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* Europe or North America=*Hippuris vulgaris* Linn.
HIPPURIS Linn.
**europaea* ("europeus") Raf. Med. Repos. II. 5:352. 1808, *nom.* in syn.; sub *Caullinia hippurioides* Raf.; Jour. Bot. (Paris) 2:171. 1809, *nom.*=*H. vulgaris* Linn.
polyphylla Raf. Fl. Ludovic. 13. 1817, *descr.* (*Pesse commune* Rob. Voy. Louis 3:330. 1807); Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.* (an *H. vulgaris* sensu Nutt.?). Louisiana. Prob.=*Proserpinaca* sp.

ARALIACEAE

- ARALIA** Linn.
**flexuosa* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
**parviflora* Raf. l.c., *nom.* Alleghany Mountains.
PANAX Linn.
americanum Raf. New Fl. N. Am. 4:58. 1836 [1838], *descr.* (*Panax quinquefolium* Linn. var. *americanum* Raf. Med. Fl. 2:52. fig. 71. 1830); Aut. Bot. 22. 1840, *nom.* Canada to Missouri=*Panax quinquefolium* Linn.
var. *elatum* Raf. New Fl. l.c., *descr.*
obovatum Raf. l.c., *descr.*
**cuneatum* Raf. Act. Soc. Linn. Bordeaux 6:286. 1834, *nom.*, iter. Merr. Proc. Am. Philos. Soc. 86:88, 90. 1942. [*P. americanum* Linn. var. *cuneatum* Raf.]. North America=*P. quinquefolium* Linn.
†*lanceolatum* Raf. Herb. Raf. 68. 1833, *nom.*; Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.*, iter. Merr. Proc. Am. Philos. Soc. 86:88, 90. 1942; New Fl. N. Am. 4:57. 1836 [1838], *descr.*; Aut. Bot. 22. 1840, *nom.* Eastern North America=*Panax trifolium* Linn.
**obovatum* Raf. Herb. Raf. 68. 1833, *nom.*; Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.*, iter. Merr. Proc. Am. Philos. Soc. 86:88, 90. 1942=*Panax quinquefolium* Linn. [*P. quinquefolium* Linn. var. *obovatum* Raf.]. Alleghany Mountains.
quinquefolium Linn.
var. *americanum* Raf. Med. Fl. 2:52. f. 71. 1830, *descr.*; Casket 1831:235. fig. 1831, *descr.*; Sat. Eve. Post 10(527):[1]. fig. 1831. North America=*Panax americanum* Raf.=*P. quinquefolium* Linn.
asiaticum Raf. Med. Fl. l.c., *descr.* Central and Eastern Asia, Manchurica, Korea=*Panax shin-seng* Nees.
cuneatum Raf. l.c., *nom.* alt. *P. quinquefolium* Linn. var. *americanum* Raf.=*Panax quinquefolium* Linn.
obovatum Raf. l.c., *descr.* (*P. quinquefolium* sensu Barton, Med. Bot. 2: f. 45. 1818). Eastern North America=*Panax quinquefolium* Linn.
ovatum Raf. l.c., *nom.* alt. *Panax quinquefolium* Linn. var. *asiaticum* Raf. Asia=*Panax shin-seng* Nees.

UMBELLIFERAE

- *ABIOTON* Raf. Good Book 56. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Capnophyllum* Gaertn. (1791).
**africanum* Raf. l.c., *nom.* (*Conium africanum* Linn.). South Africa=*Capnophyllum africanum* (Linn.) Koch.
**ACHEMORA* Raf. Herb. Raf. 78. 1833, *nom.*, *sphalm.*=*Archemora* DC.=*Oxypolis* Raf. (1825).
**serrata* Raf. l.c., *descr.* Kentucky, Tennessee=*Oxypolis rigida* (Linn.) Raf.
**trifoliata* Raf. l.c., *descr.* Missouri.
**ACULARIA* Raf. Good Book 53. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 53=*Scandix* Linn.
**australis* Raf. l.c., *nom.* (*Scandix australis* Linn.). Mediterranean region.
**nodosa* Raf. l.c., *nom.* (*Scandix nodosa* Linn.). Europe, Asia Minor, North Africa=*Chaerophyllum nodosum* (Linn.) Crantz.
**trichosperma* Raf. l.c., *nom.* (*Scandix trichosperma* Linn.). Syria=*Caucalis trichosperma* (Linn.) Delile.

- *ADORION* Raf. New Fl. N. Am. 4:34. 1836 [1838], *nom.*=*seq.*
ADORIUM Raf. Neogen. 3. 1825, *nom. nov.* *Marathrum* Raf. (1819), non Humb. & Bonpl. (1808); Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.* (*Marathrum* Raf.); New Fl. N. Am. 1:66. 1836, *descr.* (*Marathrum* Raf. 1819)=*Musineon* Raf. (1820) (*Musenium* Nutt., 1840).
†*crassifolium* Raf. Seringe Bull. Bot. 1:217. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833; New Fl. N. Am. l.c., *descr.* (*Seseli divaricatum* Pursh); Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55. Missouri River=*Musineon divaricatum* (Pursh) Nutt.
**AEGOKERAS* Raf. Good Book 51. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 51=*Seseli* Linn.
**cespitosa* Raf. l.c., *nom.* (*Seseli caespitosum* Sibth. & Sm. Fl. Graec. Prodr. 1:200. 1806). Greece.
**AENANTHE* Raf. Jour. Bot. (Desv.) 4:271. 1814, *nom.*, *sphalm.*=*Oenanthe* Linn.
**humilis* Raf. l.c., *descr.*, *sphalm.*=*Oenanthe humilis* Raf. Sicily.
**AGASULIS* Raf. Good Book 57. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 57=*Ferula* Linn.
**tingitana* Raf. op. cit. 58, *nom.* (*Ferula tingitana* Linn.). North Africa.
**AGATHORHIZA* Raf. Good Book 60. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 60, *nom. nov.* *Archangelica* Hoffm.
**AGEOMORON* Raf. Good Book 56. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Astrodaucus* Drude (1898).
**royeni* Raf. l.c., *nom.* (*Conium royeri* Linn.). Southeastern Europe=*Astrodaucus orientalis* (Linn.) Drude.
**ALSATON* Raf. Good Book 61. 1840, 1913 repr. Scad. Gen. Omb. Pl. 61, *nom. nov. provis.* *Bradlaeia* Neck. (1790)=*Siler* Crantz (1767).
AMMI Linn.
**junceum* Raf. Neogen. 2. 1825, *nom.* sub *Ptilimnium* Raf. Eastern North America=*Ptilimnium capillaceum* (Michx.) Raf.=*Discopleura capillacea* (Michx.) DC.
**ANGINON* Raf. Good Book 56. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Rhyticarpus* Sonder (1862).
**rugosum* Raf. l.c., *nom.* (*Conium rugosum* Thunb.; *C. suffruticosum* Berg.). South Africa=*Rhyticarpus rugosus* (Thunb.) Sond. et, quoad syn. Berg., *Cnidium suffruticosum* (Berg.) Cham. & Schlecht.
ANIDRUM Neck. (1790); Raf. Good Book 59. 1840, *descr.* (*Bifora* Hoffm.), 1913 repr. Scad. Gen. Omb. Pl. 59=*Bifora* Hoffm. (1816).
**didymum* Raf. l.c., *nom.* (*Coriandrum testiculatum* Linn.). Mediterranean region=*Bifora testiculata* (Linn.) Roth.
ANISUM Linn.; Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Pimpinella* Linn.
**italicum* Raf. l.c., *nom.* (*Pimpinella peregrina* Linn.). Southern Europe, Asia Minor.
**odoratum* Raf. l.c., *nom.* (*Pimpinella anisum* Linn.). Eastern Mediterranean region=*Pimpinella anisum* Linn.
**ANTRISCUS* Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Anthriscus* Hoffm. (1814), *nom. conserv.* (*Chaerifolium* Haller, 1768).
**fetidus* Raf. l.c., *nom.* (*Scandix anthriscus* Linn.). Europe.
APINELLA Neck.; Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Trinia* Hoffm. (1814), *nom. conserv.* (*Apinella* Neck., 1790).
**pumila* Raf. l.c., *nom.* (*Pimpinella dioica* Linn.; *Seseli pumilum* Linn.). Europe=*Trinia glauca* (Linn.) Dumort.
**APOLGUSA* Raf. Good Book 57. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 57=*Lecokia* DC. (1829).
**cretica* Raf. l.c., *nom.* (*Cachrys cretica* Lam.). Greece=*Lecokia cretica* (Lam.) DC.
**taurica* Raf. l.c., *nom.* (*Cachrys taurica* Willd.). Tauria=*Rumia taurica* (Willd.) Hoffm.=*Sanicula crithmifolia* Willd.
**APSEUDES* Raf. Good Book 57. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 57=*Peucedanum* Linn.
**caspica* Raf. l.c., *nom.* (*Peucedanum redivivum* Pallas). Russia.
**ACHEMERA* Raf. New Fl. N. Am. 4:34. 1836 [1838], *nom.*, *sphalm.*=*Archemora* DC. (1830).
ATHAMANTA Linn.
**cherophyllioides* Nutt. ex Raf. New Fl. N. Am. 4:29. 1836 [1838], *nom.* in syn. sub *Entasikon tenuifolium* Raf. Arkansas.=*Trepocarpus aethusae* Nutt.

- ***ATHAMANTHA** Raf. Good Book 56, 57. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 56, 57=*Athamanta* Linn.
- **golakka* Raf. l.c., *nom.* [*Athamanta golakka* Hacq. [*A. galatta* Gmel.]]. Europe=*Grafia golakka* (Hacq.) Reichb.
- ATIRSITA** Raf.²⁵ New Fl. N. Am. 4:36. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=? *Eryngium* Linn.
- pumila* Raf. op. cit. 37, *descr.* (*Eryngium gracile* "Nutt."; *E. plantagineum* Collins); Aut. Bot. 10, 184. 1840, *nom.* Arkansas=? *Eryngium prostratum* Nutt.
- var. *serrata* Raf. New Fl. N. Am. l.c., *descr.*
- BABIRON** Raf. New Fl. N. Am. 4:23. 1836 [1838], *descr.*; Good Book 46, 55. 1840, *nom.*, 1913, repr. Scad. Gen. Omb. Pl. 46, 55 (incl. *Spermolepis* Raf., fide Raf.)=*Spermolepis* Raf. (1825).
- dichotomum* Raf. op. cit. 24, *descr.* (*Ammi divaricatum* herb. Collins; an Michx.?). Aut. Bot. 106. 1840, *nom.*; Good Book 55. 1840, *nom.*, 1913, repr. Scad. Gen. Omb. Pl. 55. Florida=*Spermolepis divaricata* (Walt.) Raf.
- divaricatum* Raf. l.c., *descr.* (*Daucus divaricatus* Walt.; *Lep-tocaulis divaricatus* DC.; *Ammi divaricatum* Michx.; *Ligusticum pusillum* Pers.; *Sison pusillum* Michx.); Aut. Bot. l.c., *nom.*; Good Book l.c., *nom.* Carolina, Florida=*Apium divaricatum* Michx.=*Spermolepis divaricata* (Walt.) Raf.
- pusillum* Raf. op. cit. 23, *descr.* (*Daucus pusillus* sensu Torr.); Aut. Bot. l.c., *nom.*; Good Book l.c., *nom.* Georgia, Alabama=? *praec.*
- ***BAKEROS** Raf. Good Book 51. 1840, *descr.*, 1913, repr. Scad. Gen. Omb. Pl. 51=*Seseli* Linn.
- **elatum* Raf. l.c., *nom.* (*Seseli elatum* Linn.). Southern Europe.
- BALLIMON** Raf. New Fl. N. Am. 4:28. 1836 [1838], *descr.*=*Daucus* Linn.
- maritimum* Raf. l.c., *nom.* (*Daucus maritimus* Lam.); Good Book 55. 1840, *nom.*, 1913, repr. Scad. Gen. Omb. Pl. 55. Europe=*Daucus carota* Linn., subsp. *maritimus* (Lam.) Spreng.
- muricatum* Raf. ex Jacks*. Ind. Kew. 1:266. 1893, *sphalm.*=*seq.*
- **muricatum* Raf. l.c., *nom.* (*Daucus muricatus* Linn.). Mediterranean region (*Platyspermum muricatum* Hoffm.).
- ***BIROSTULA** Raf. Good Book 59. 1830, *descr.*, 1913, repr. Scad. Gen. Omb. Pl. 59=*Scandix* Linn.
- **pinnatifida* Raf. l.c., *nom.* (*Scandix pinnatifida* Vent.). Mediterranean region, Asia Minor.
- ***BLEPHIXIS** Raf. Good Book 59. 1840, *descr.*, 1913, repr. Scad. Gen. Omb. Pl. 59=*Chaerophyllum* Linn.
- **uniflora* Raf. l.c., *nom.* (*Chaerophyllum minimum* Vand.). Italy.
- ***BRADLEIA** Raf. Good Book 61. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 61=*Bradlaeia* Neck. (1790)=*Siler* Crantz (1767).
- ***BUPLERUM** Raf. Med. Repos. II. 5:353. 1808, *nom.*=*Bupleurum* Linn.
- **rupestre* Raf. l.c., *nom.* Central Atlantic United States.
- BUPLEURUM** Linn.
- rupestre* Raf. ex Jacks*. Ind. Kew. 1:360. 1893 (*Bupleurum rupestre* Raf.) [Central Atlantic United States].
- ***BUPLEVRUM** Raf. Jour. Bot. (Paris) 2:173. 1809, *nom.*; Anal. Nat. Tabl. Univ. 183. 1815, *nom.*; Good Book 54. 1840, *descr.*, 1913, repr. Scad. Gen. Omb. Pl. 54=*Bupleurum* Linn.
- **fruticosum* Raf. First Cat. Bot. Gard. Transylv. Univ. 20. 1815, *nom.*=*Bupleurum fruticosum* Linn. Mediterranean region.
- **gerardi* Raf. Good Book l.c., *nom.* [*Bupleurum gerardi* Jacq.], 1913 repr. Scad. Gen. Omb. Pl. 54. Europe, Asia Minor.
- **petreum* Raf. l.c., *nom.* [*Bupleurum petraeum* Linn.]. Europe.
- **pyreneum* Raf. l.c., *nom.* [*Bupleurum pyrenaicum* Gouan.]. Europe.
- **rigidum* Raf. l.c., *nom.* [*Bupleurum rigidum* Linn.]. France.
- **rupestre* Raf. Jour. Bot. (Paris) 2:173. 1809, *nom.* [Central Atlantic United States].
- **stellatum* Raf. Good Book l.c., *nom.* [*Bupleurum stellatum* Linn.]. Europe.
- ***CHABREA** Raf. Good Book 51. 1840, *descr.* 1913 repr. Scad. Gen. Omb. Pl. 51=*Peucedanum* Linn.
- **carvifolia* Raf. l.c., *nom.* (*Selinum carvifolium* Crantz ex Jacq. Fl. Austr. 1:47. t. 72. 1773. Austria=*Peucedanum carvifolium* Vill.
- ***CHEROPHYLLUM** Raf. Herb. Raf. 78. 1833, *nom.*; New Fl. N. Am. 4:33. 1836 [1838], *nom.*, sub *Pachiloma verticillata* Raf.; Good Book 53. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 53=*Chaerophyllum* Linn.
- **flavicaule* Raf. Herb. Raf. 78. 1833, *descr.* Ohio, Kentucky=*Chaerophyllum procumbens* (Linn.) Crantz.
- **pallidum* Raf. l.c., *descr.* Missouri=*praec.*
- **triflorum* Raf. op. cit. 79, *descr.* Illinois=*praec.*
- **vernum* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
- ***COGSVELLIA** Raf. Good Book 55. 1840, *nom.* sub *Lomatium* Raf., 1913 repr. Scad. Gen. Omb. Pl. 55=*Cogswellia* Roem. & Schult. (1820).
- **villosa* Raf. l.c., *nom.*=*Lomatium foeniculaceum* (Nutt.) Coult. & Rose.
- ***CONILARIA** Raf. Good Book 53. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 53=*Lecokia* DC. (1829).
- **cretica* Raf. l.c., *nom.* (*Cachrys cretica* Lam.; *Scandix latifolium* Sibth. & Sm. Fl. Graec. 3: 77. t. 284. 1819). Greece, Asia Minor=*Lecokia cretica* (Lam.) DC.
- ***CROSAPIA** Raf. Good Book 53. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 53=*Chaerophyllum* Linn.
- **aurea* Raf. l.c., *nom.* (*Chaerophyllum aureum* Linn.). Europe.
- **colorata* Raf. l.c., *nom.* (*Chaerophyllum coloratum* Linn.). Europe.
- ***CRYPTOTENIA** Raf. Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.*, *nota*, iter. Merr. Proc. Am. Philos. Soc. 86:86. 1943; Good Book 58. 1840, *nom.* sub *Aulacosperma* Neck., 1913 repr. Scad. Gen. Omb. Pl. 58=*Cryptotaenia* DC. (1829), *nom. conserv.* (*Deringa* Adans., 1763; *Alacospermum* Neck., 1790).
- CYMOPTERUS** Raf. Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *descr.* (*Selinum acaule* Pursh; *Thapsia glomerata* Nutt.); Isis von Oken 1920, 1: Lit. Anz. 239. 1820, *descr.*; Seringe Bull. Bot. 1:216. 1830, *descr.* (*Selinum acaule* Pursh; *Thapsia glomerata* Nutt.), iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833; Herb. Raf. 40. 1833, *nom.*; Good Book 56. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 56.
- **acaule* (Pursh) Raf. Herb. Raf. 40. 1833, *nom.* (*Selinum acaule* Pursh); Good Book l.c., *nom.* (*Selinum acaule* Pursh), 1913 repr. Scad. Gen. Omb. Pl. 56. Central United States.
- ***CYMOSPERMUM** Raf. New Fl. N. Am. 4:34. 1836 [1838], *nom.*, *sphalm.*?=*seq.*?
- CYRTOSPERMUM** Raf. ex DC. Mém. Ombel. 42. 1829, *nom.* in syn.; Prodr. 4:118. 1830, *nom.* in syn. sub *Cryptotaenia* DC.; Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.* (*Cryptotaenia* DC.), iter. Merr. Proc. Am. Philos. Soc. 86:86. 1942; New Fl. N. Am. 4:34. 1836 [1838], *nom.*; Good Book 58. 1840, *nom.* sub *Aulacosperma* Neck., 1913 repr. Scad. Gen. Omb. Pl. 58=*Cryptotaenia* DC. (1829), *nom. conserv.* (*Deringa* Adans., 1763; *Aulocospermum* Neck., 1790).
- trifoliatum* Raf. ex DC. Prodr. 4:119, 1830, *nom.* in syn. sub *Cryptotaenia canadensis* DC. North America=*Cryptotaenia canadensis* (Linn.) DC.
- ***DARDANIS** Raf. Good Book 57. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 57=*Ferula* Linn.
- **sibirica* Raf. l.c., *nom.* (*Peucedanum sibiricum* Willd.)=*Ferula soongaria* Pallas.
- ***DARION** Raf. Good Book 50. 1840, *descr.* (*Arduina* Adans.), 1913 repr. Scad. Gen. Omb. Pl. 50=*Kundmannia* Scop. (1777), *nom. conserv.* (*Arduina* Adans., 1763).
- **siculum* Raf. l.c., *nom.* (*Sium siculum* Linn.). Mediterranean region=*Kundmannia sicala* (Linn.) DC.
- ***DASISPERMUM** Raf. Good Book 56. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Dasypermum* Neck. (1790).
- **maritimum* Raf. l.c., *nom.* (*Conium rigens* Linn.). South Africa=*Cnidium suffruticosum* (Berg.) Cham. & Schlecht.
- DAUCUS** Linn.
- agrestis* Raf. New Fl. N. Am. 4:27. 1836 [1838], *descr.*; Aut. Bot. 106. 1840, *nom.* Europe=*Daucus carota* Linn.
- brevicaulis* Raf. New Fl. N. Am. 4:25. 1836 [1838], *descr.*; Aut. Bot. 106. 1840, *nom.* Pennsylvania (near Philadelphia)=*Daucus carota* Linn.

²⁵ See Pennell's critical note on this genus, Acad. Nat. Sci. Phila. Monog. 1:636. 1935. The Nuttall specimen of *Eryngium gracile* is *E. prostratum* Nutt., but Rafinesque's description may have been based on some small plant mixed with the *Eryngium*. In any case it is not a scrophulariaceous plant.

DAUCUS (*continued*).

- brevifolius* Raf. op. cit. 26, *descr.*; Aut. Bot. 106. 1840, *nom.* Alleghany Mountains=*Daucus pusilla* Michx.
var. *filiformis* Raf. New Fl. N. Am. l.c., *descr.*
**carotta* Raf. Med. Repos. III. 2:313. 1811, *nom.*; New Fl. N. Am. 4:22, 27. 1836 [1838], *nom.*=*D. carota* Linn. Europe.
†*fetidus* Raf. Fl. Ludovic. 81. 1817, *descr.* [s.n. Rob. Voy. Louis. 3:460-461, 1807, *nota*]. Louisiana=? *Daucus pusillus* Michx.
heterophyllus Raf. New Fl. N. Am. 4:26. 1836 [1838], *descr.*; Aut. Bot. 106. 1840, *nom.* Canada to Louisiana=*Daucus carota* Linn.
var. *asper* Raf. op. cit. 27, *descr.*; l.c., *nom.*
var. *fumaroides* Raf. ll.cc., *descr.*, *nom.*
var. *laxiflorus* Raf. ll.cc., *descr.*, *nom.*
levis Raf. op. cit. 25, *descr.*, l.c., *nom.* New Jersey to Kentucky. Ex *descr.*=? *Daucus carota* Linn.
nudicaulis Raf. ll.cc., *descr.*, *nom.* Pennsylvania (near Philadelphia). Ex *descr.*=*Daucus carota* Linn.
var. *pumilus* Raf. New Fl. N. Am. l.c., *descr.*
**scadiophyllus* Raf. op. cit. 24, *descr.*; l.c., *nom.* Georgia, Alabama, Florida=*Daucus carota* Linn.
scariosus Raf. New Fl. N. Am. op. cit. 25, *descr.*; Aut. Bot. l.c., *nom.* Pennsylvania=? *Daucus carota* Linn.
var. *ramosus* Raf. New Fl. l.c., *descr.*
var. *simplex* Raf. l.c., *descr.*
scadiophyllus Raf. ex Jacks*. Ind. Kew. 1:721. 1893=*D. scadiophyllus* Raf.
strigosus Raf. op. cit. 27, *descr.*; l.c., *nom.* England, ex *descr.*=? *D. carota* Linn.
**tenuifolius* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
#**DISCADIA** Raf. Good Book 50. 1840, *descr.* subg. *Siumis* Raf. (*Sium longifolium* Pursh), 1913 repr. Scad. Gen. Omb. Pl. 50=*Oxypolis* Raf. (1825).
ENTASIKON Raf. New Fl. N. Am. 4:28. 1836 [1838], *descr.*; Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55=*Trepocarpus* Nutt. (1829).
tenuifolium Raf. New Fl. op. cit. 29, *descr.* (*Athamanta cherophyloides* Nutt., in herb.; *Trepocarpus aethusae* Nutt.?); Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55. Arkansas=*Trepocarpus aethusae* Nutt. *tuberosum* Raf. ll.cc., *descr.*, *nom.* (*Phellandrium* Nutt. in herb.). Arkansas=? *prae.*
***ENTASIKOM** Raf. New Fl. N. Am. 4:29. 1836 [1838], *sphalm.*=*prae.*
***EPIKEROS** Raf. Good Book 51. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 51=*Selinum* Linn.
**pyrenaicus* Raf. l.c., *nom.* (*Seseli pyrenaicum* Linn.). Pyrenees Mountains=*Selinum pyrenaicum* (Linn.) Gouan.
ERIGENIA Nutt.
**shortiana* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
ERYNGIUM Linn.
**baldwinii* Raf. New Fl. N. Am. 4:36. 1836 [1838], *nom.* sub *Streblanthus humilis* Raf. Florida=*Eryngium baldwinii* Spreng.
**floridanum* Torr. ex Raf. Atl. Jour. 1:149. 1832, *nom.* sub *Streblanthus* Raf.
**gracile* Nutt. ex Raf. New Fl. N. Am. 4:36. 1836 [1838], *nom.* in syn. sub *Atirsita pumila* Raf. Arkansas=? *E. prostratum* Nutt.
**obliquatum* Raf. Herb. Raf. 52. 1833, *nom.* Rocky Mountains or Oregon.
**plantagineum* Collins ex Raf. New Fl. N. Am. 4:37. 1836 [1838], *nom.* in syn. sub *Atirsita pumila* Raf. Arkansas=? *Eryngium prostratum* Nutt.
**polycephalum* Baldw. ex Raf. op. cit. 36, in syn. sub *Streblanthus tenuifolius* Raf. Florida=*Eryngium baldwinii* Spreng.
tuberosum Raf. Fl. Ludovic. 60. 1817, *descr.* (*Chardon tubereux* Rob. Voy. Louis. 3:429. 1807). Louisiana=*Eryngium yuccifolium* Michx.
**yuccifolium* Raf. Med. Fl. 2:218. 1830, *nom.*=*prae.*
***ETOXOE** Raf. Good Book 53. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 53=*Astrantia* Linn.
**aromatica* Raf. l.c., *nom.* (*Astrantia carniolica* Wulf.). Europe.

FERULA Linn.

- **feniculacea* Raf. Good Book 55. 1840, *nom.*=*F. foeniculacea* Nutt.
GALBANON Adans.; Raf. Good Book 58. 1840, *nom.* 1913 repr. Scad. Gen. Omb. Pl. 58=*Polylophium* Boiss. (1844).
**officinale* Raf. l.c., *nom.* (*Bubon macedonicus* Linn.; *B. galbanum* Linn.)=*Athamanta macedonica* (Linn.) Spreng. (Greece; North Africa) et *Bubon galbanum* Linn. (South Africa).
***GOLATTA** Raf. Good Book 57. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 57=*Grafia* Reichb. (1837).
**carniolica* Raf. l.c., *nom.* (*Athamanta golaka* Hacq. *sphalm.* Raf. "golatta"). Europe=*Grafia golaka* (Hacq.) Reichb.
***GONANTHERUS** Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom. nov.* provis. *Myrrhis* sensu Michx.=*Osmorhiza* Raf. (1818).
***HIPPATON** Raf. Good Book 51. 1840, *descr.*²⁰=*Seseli* Linn.
**gummifer* Raf. Good Book 51. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 51 (*Seseli gummiferum* Pall.). Tauria.
**hippomarathrum* Raf. ll.cc., *nom.* (*Seseli hippomarathrum* Jacq.). Europe.
**tortuosum* Raf. ll.cc., *nom.* (*Seseli tortuosum* Linn.). Southern Europe.
HYDROCOTYLE Linn.
bipinnata Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States=*Erigenia bulbosa* (Michx.) Nutt.
dissecta Raf. ll.cc., *nom.* Central Atlantic United States=*Erigenia bulbosa* (Michx.) Nutt.
incrassata Raf. Fl. Ludovic. 81. 1817, *sphalm.* *incrassatam*, *descr.* (*Hydrocotyle* Rob. Voy. Louis. 3:461. 1807). Louisiana=*Hydrocotyle umbellata* Linn.
***HYPOMARATHRUM** Raf. Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.*, *nota*, iter. Merr. Proc. Am. Philos. Soc. 86: 88. 1942, op. cit. 90, *nom.*=*Hippomarathrum* Hall. (1745)=*Seseli* Linn.
***ITASINA** Raf. Good Book 51. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 51=*Oenanthe* Linn.
**filifolia* Raf. l.c., *nom.* (*Seseli filifolium* Thunb.). South Africa=*Oenanthe filiformis* Lam.
***KARSTHIA** Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Oenanthe* Linn.
**carniolica* Raf. l.c., *nom.* (*Oenanthe karstia* Hacq.)=*Oenanthe silaifolia* Beib. Caucasus, Southern Europe.
***KATAPSUXIS** Raf. Good Book 58. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 58=*Cnidium* Cusson (1782).
**cicutefolia* Raf. op. cit. 59, *nom.* "*Laserp[iti]um* do Villars," *sphalm.*=*Ligusticum cicutaeifolium* Vill. Hist. Pl. Dauph. 2:612. t. 15. 1782=*Cnidium silaifolium* (Jacq.) Simonkai. Europe.
KERASKOMION Raf. New Fl. N. Am. 4:21. 1836 [1838], *descr.*; Good Book 46, 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 46, 55=*Cicuta* Linn.
bulbiferum Raf. ll.cc., *descr.*, *nom.* (*Cicuta bulbifera* Linn.). Canada to Virginia=*Cicuta bulbifera* Linn.
KLONION Raf. New Fl. N. Am. 4:35. 1836 [1838], *descr.* subgen. *Streblanthus* Raf. Good Book 56. 1840, *nom.*, ut gen., 1913 repr. Scad. Gen. Omb. Pl. 56=*Eryngium* Linn.
gracile Raf. op. cit. 36, *descr.*, ll.cc., *nom.* (*Streblanthus gracilis* Raf.; *Eryngium gracile* Baldw.). Florida=*Eryngium baldwinii* Spreng.
tenuifolium Raf. ll.cc., *descr.*, *nom.* (*Streblanthus tenuifolius* Raf.). Florida=*Eryngium baldwinii* Spreng.
***KREIDION** Raf. Good Book 57. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 57=*Conioselinum* Hoffm. (1816).
**chinensis* Raf. l.c., *nom.* (*Athamanta chinensis* Linn.). Eastern United States=*Conioselinum chinense* (Linn.) Britton, Sterns & Poggenb.
***LAOBERDES** Raf. Good Book 50. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 50=*Apium* Linn.
**repens* Raf. l.c., *nom.* (*Sium repens* Linn. f.). Europe=*Apium nodiflorum* (Jacq.) Lag. subsp. *repens* (Jacq.) Thellung.

²⁰ This is a parallel case with *Helioreos* Raf. in that while Rafinesque published *Hippaton*, in transferring the three specific names he states "types *P. hippomarathrum*, *gummifer*, *tortum* R. all *Seseli* of authors." It is suspected that here he first selected a generic name commencing with the letter P, and when he changed it, forgot to change the abbreviation in the text; or a typographical error is involved.

- ***LASESPITIUM** Raf. Good Book 58. 1840, 1913, repr. Scad. Gen. Omb. Pl. 58, *sphalm.*=*Laserpitium* Linn.
- ***LAVERA** Raf. Good Book 50. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 50=*Apium* Linn.
- ***nodiflora** Raf. l.c., *nom.* (*Sium nodiflorum* Linn.). Europe=*Apium nodiflorum* (Linn.) Lag.
- ***LEIOTELIS** Raf. Good Book 50. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 50=*Seseli* Linn.
- ***annua** Raf. l.c., *nom.* (*Seseli annuum* Linn.). Europe.
- ***LEPISPERMA** Raf. Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.*, *nota*, iter. Merr. Proc. Am. Philos. Soc. 86:88. 1942, op. cit. 90, *nom.* (Type *Leptocaulis divaricatus* DC.)=*Spermolepis* Raf. (1825).
- LOMATIUM** Raf. Jour. Phys. Chim. Hist. Nat. 89:101. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 239. 1820 (*Cogswellia* Spreng., 1820); Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.*; New Fl. N. Am. 4:34. 1836 [1838], *nom.*
- ***athamantoides** Raf. Good Book 55. 1840, *nom.*, 1913, repr. Scad. Gen. Omb. Pl. 55 (*Cogswellia villosa* Schultes; *Ferula foeniculacea* Nutt.). Missouri=*L. foeniculaceum* (Nutt.) Coult. & Rose.
- pubescens** Raf. Seringe Bull. Bot. 1:216. 1830, *descr.*, iter. Schlecht, Linnaea 8: Lit.-Ber. 81. 1833; Herb. Raf. 40. 1833, *nom.* Missouri (Mandan country)=*Dakota*=*L. foeniculaceum* (Nutt.) Coult. & Rose.
- villosum** Raf. Jour. Phys. Chim. Hist. Nat. 89:101. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 239. 1820, *descr.* Missouri River (*Cogswellia villosa* Schultes)=*L. foeniculaceum* (Nutt.) Coult. & Rose.
- #**LOPHIOPLIS** Raf. New Fl. N. Am. 4:26. 1836 [1838], *nom. nov. provis.*, subgen. *Daucus* Linn.; Aut. Bot. 106. 1840, *nom.*, subgen. *Daucus* Linn. (Type *Daucus pusillus* Michx.)=*Daucus* Linn.
- ***MAGDARIS** Raf. Good Book 58. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 58=*Trochiscanthus* Koch (1824).
- ***nodiflora** Raf. l.c., *nom.* (*Ligusticum nodiflorum* Vill.; *Smyrnum nodiflorum* All.; *Angelica paniculata* Lam.). Southern Europe=*Trochiscanthus nodiflorus* (Vill.) Koch.
- MARATHRUM** Raf. Jour. Phys. Chim. Hist. Nat. 89:101. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.*; Jour. Phys. Chim. Hist. Nat. 91:71. 1821, *nom.* (=Musineon Raf.); Ann. Gén. Sci. Phys. 7:19. 1820, *nom.*; Seringe Bull. Bot. 1:217. 1830, *nom.* iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833; Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.*; New Fl. N. Am. 1:66. 1836, *nom.*, *nota*; op. cit. 4:34. 1836 [1838], *nom.*; Herb. Raf. 40. 1833, *nom.*, *nota*, non Humb. & Bonpl. (1808), nec Link (1829)=*Museneum* Nutt. (1840)=*Musineon* Raf. (1820).
- ***crassifolium** Raf. Herb. Raf. 40. 1833, *nom.* (*Seseli divaricatum* Pursh). North America=*Musineon divaricatum* (Pursh) Nutt.
- divaricatum** Raf. ex Jacks*. Ind. Kew. 2:166. 1894 (*Seseli divaricatum* Pursh). North America=*Musineon divaricatum* (Pursh) Nutt., ut *Museneum*.
- ***MASPETON** Raf. Good Book 58. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 58=*Opopanax* Koch (1824).
- ***chironium** Raf. l.c., *nom.* (*Laserpitium chironium* Linn.). Mediterranean region=*Opopanax chironium* (Linn.) Koch.
- ***MELANATON** Raf. Good Book 60. 1840, 1913 repr. Scad. Gen. Omb. Pl. 60, *nom. nov.* *Melanoselinum* Hoffm. (1814)=*Thapsia* Linn.
- ***MELANOSELINON** Raf. Good Book 60. 1840, 1913 repr. Scad. Gen. Omb. Pl. *nom.* sub *Melanton* Raf.=*Melanoselinum* Hoffm. (1814)=*Thapsia* Linn.
- ***MEON** Raf. Good Book 59. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 59=*Meum* Adans. (1763).
- ***MEONITIS** Raf. Good Book 59. 1840, *descr.*, *nom. nov.* *Meum* Adans., 1913 repr. Scad. Gen. Omb. Pl. 59=*Meum* Adans. (1763).
- ***chloranthus** Raf. l.c., *nom.* (*Aethusa meum* Murr.). Europe=*Meum athamanticum* Jacq.
- MESODISCUS** Raf. New Fl. N. Am. 4:19. 1836 [1838], *descr.*; Good Book 46, 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 46, 55=*Cryptotaenia* DC. (1829), *nom. conserv.* (*Deringa* Adans., 1763; *Aulacospermum* Neck., 1790).
- proliferus** Raf. op. cit. 20, *descr.*; l.c., *nom.* Alabama=*Cryptotaenia canadensis* (Linn.) DC.
- simplex** Raf. l.c., *descr.*, *nom.* Alabama=*praec.* var. *major* Raf. l.c., *descr.*
- ***MUITIS** Raf. Good Book 54. 1840, *descr.*, iter. Scad. Gen. Omb. Pl. 54=*Caucalis* Linn.
- ***daucoides** Raf. l.c., *nom.* (*Caucalis daucoides* Linn.). Eurasia.
- MUSINEON** Raf. Jour. Phys. Chim. Hist. Nat. 91:71. 1820, *nom. nov.* *Marathrum* Raf. (1819), non *Marathrum* Humbl. & Bonpl., 1808; Ann. Gén. Sci. Phys. 7:19. 1820, *nom.* (*Museneum* Nutt., 1840; *Daucophyllum* Rydb., 1913).
- #**MUTELLINA** Raf. Good Book 59. 1840, *nom.*, subgen. *Meonitis* Raf. [*Meum mutellina* Gaertn.], 1913 repr. Scad. Gen. Omb. Pl. 59=*Ligusticum* Linn.
- ***NABADIUM** Raf. Good Book 59. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 59=*Ligusticum* Linn.
- ***pyrenaicum** Raf. l.c., *nom.* (*Ligusticum pyrenaicum* Gouan). Southwestern Europe.
- ODACMIS** Raf. New Fl. N. Am. 4:39. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=*Centella* Linn.
- fascicularis** Raf. op. cit. 40, *descr.*; Aut. Bot. 9. 1840, *nom.* Florida=*Centella repanda* (Pers.) Small.
- OENANTHE** Linn.
- ***caroliniana** Raf. Seringe Bull. Bot. 1:218. 1830, *nom.* sub *Oxypholis* Raf., iter. Schlecht. Linnaea 8: Lit.-Ber. 83. 1833. Carolina=O. *carolinensis* Pers.=*Oxypholis filiformis* (Walt.) Britton.
- ***filiformis** Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky. Prob.=*Oxypholis filiformis* (Walt.) Britton.
- humilis** Raf. Précis Découv. Somiol. 41. 1814, *descr.*; Jour. Bot. (Desv.) 4:271. 1814, *descr.* (*Aenanthe*) Sicily.
- ***OREOSELINON** Raf. Good Book 56. 1840, *nom.* sub *Oreoselis* Raf., 1913 repr. Scad. Gen. Omb. Pl. 56=*Oreoselinum* Adans. (1763)=*Peucedanum* Linn.
- ***OREOSELIS** Raf. Good Book 56. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 56. (*Oreoselinum* Adans. [*Oreoselinon* Raf.])=*Peucedanum* Linn.
- ***cervaria** Raf. op. cit. 57, *nom.* (*Athamanta cervaria* Linn.). Europe=*Peucedanum cervaria* (Linn.) Lapeyr.
- ***pisana** Raf. l.c., *nom.* (*Athamanta pisana* Savi). Italy=*Peucedanum palustre* Moench.
- ***OREOTELIA** Raf. Good Book 50. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 50=*Seseli* Linn.
- ***glaucum** Raf. op. cit. 51, *nom.* (*Seseli glaucum* Linn.). Europe=*Seseli hippomarathrum* Jacq.
- ***montana** Raf. l.c., *nom.* (*Seseli montanum* Linn.). Europe=*Seseli montanum* Linn.
- OREOXIS** Raf. Seringe Bull. Bot. 1:217. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 81. 1833; Atl. Jour. 1:145. 1832, *descr.*
- humilis** Raf. l.c., *descr.* (*Anonymos* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:207. 1827, *descr.* (*Cymopterus humilis* Tidestr.).
- ORIMARIA** Raf. Seringe Bull. Bot. 1:218. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 82. 1833; Atl. Jour. 1:149. 1832, *descr.*; Herb. Raf. 77. 1833, *nom.*; New Fl. N. Am. 4:33. 1836 [1838], *nom.*=*Bupleurum* Linn.
- filiformis** Raf. l.c., *descr.*; Herb. Raf. 61. 1833, *nom.*; Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55, *nom.* Western Kentucky=? *Bupleurum fontanesii* Guss.
- ***OSMATON** Raf. Good Book 56. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Carum* Linn.
- ***aromaticum** Raf. l.c., *nom.* ("Bubon [*Bunium*] do Willd."). Greece=*Carum copticum* (Linn.) Benth. & Hook. f.
- OSMORHIZA** Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom. nov.* *Myrrhis* sensu Michx., non Linn.; op. cit. 4:188, 192. 1819, *nom. nov.* *Uraspermum* Nutt.; Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.* (*Uraspermum* Nutt.); Med. Fl. 2:249. 1830 (*sphalm.* *Osmoshiza*), *nom.*, *nota*; New Fl. N. Am. 4:34. 1836 [1838], *nom.*; Good Book 53. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 53.
- cordata** Raf. Med. Fl. 2:249. 1830, *nom. subnud.* Eastern North America=O. *longistylis* (Torr.) DC.
- dulcis** Raf. l.c., *nom.*, *nota* (*Myrrhis claytoni* Michx.?). Good Book 53. 1840, *nom.*, *nota*, 1913 repr. Scad. Gen. Omb. Pl. 53=*praec.* Eastern North America.
- edulis** Raf. Med. Fl. l.c., *nom. subnud.*; Herb. Raf. 54. 1833, *nom.* Eastern North America=? *praec.*
- villosa** Raf. Med. Fl. l.c. (*villosa*), *nom. subnud.* Eastern North America=O. *longistylis* (Torr.) DC.
- ***OSMOSHIZA** Raf. Med. Fl. 2:249. 1830, *nom.*, *sphalm.*=*Osmorhiza* Raf.

- ***OXIPOLIS** Raf. Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.* (*Archemora* DC., 1830); Good Book 59. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 59=seq.
- OXYPOLIS** Raf. Neogen. 2. 1825, *descr.*; Med. Fl. 2:250. 1830, *nom.*; Seringe Bull. Bot. 1:217. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 82. 1833 [*Tiedemannia* DC., 1829].
- caroliniana* Raf. Seringe Bull. Bot. 1:218. 1830, *nom.* (*Oenanthe caroliniana* [*carolinensis*] Pers.; *O. filiformis* Walt.; *Sium teretifolium* Ell.), iter. Schlecht. l.c. North America=*Oxypolis filiformis* (Walt.) Britton.
- †*denticulata* Raf. l.c., *nom.* (*Sium denticulatum* Baldw.), iter. Schlecht. l.c. Southeastern United States=*O. ternata* (Nutt.) A. Heller.
- rigida* Raf. l.c., *nom.* (*Sium rigidius* Linn.), iter. Schlecht. l.c. Eastern North America=*O. rigidior* (Linn.) Coult. & Rose.
- teretifolia* Raf. ex Jacks*. Ind. Kew. 2:394. 1894 (*Sium teretifolium* Ell.). Southeastern United States=*O. filiformis* (Walt.) Britton.
- †*tricuspidata* Raf. Seringe Bull. Bot. 1:218. 1830, *nom.* (*Sium tricuspidatum* Ell.), iter. Schlecht. l.c. Eastern United States=*O. ternata* (Nutt.) A. Heller.
- triquin[ata]* Raf. l.c., *nom.* (*Angelica triquin[ata]* Michx.), iter. Schlecht. l.c. Eastern United States.
- ***OZOTRIX** Raf. Good Book 54. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 54=*Torilis* Adans. (1763).
- **helvetica* Raf. l.c., *nom.* (*Caucalis helvetica* Jacq.). Europe=*Torilis arvensis* (Huds.) Link.
- PACHILOMA** Raf. New Fl. N. Am. 4:33. 1836 [1838], *descr.* (*Polytaenia* DC.); Good Book 46. 1840, *nom.*=*Polytaenia* DC. (1829), non *Polytaenium* Desv. (1827) (*Pleiotenia* Coult. & Rose, 1909; *Phanerotaenia* St. John, 1919).
- **nuttalli* Raf. l.c., *descr.* (*Polytaenia nuttallii* DC.; *Tordylium americanum* Nutt.). Arkansas=*Polytaenia nuttallii* DC.
- nuttalli* Raf. ex Jacks*. Ind. Kew. 2:397. 1894=praec.
- **nuttallii* Raf. ex S. Wats. Bibl. Ind. N. Am. Bot. 1:431. 1878, *nom.*=praec.
- verticillata* Raf. l.c. *descr.*; Good Book 55. 1840, *nom.* (*Tordylium americanum* Nutt.), 1913 repr. Scad. Gen. Omb. Pl. 55. Western Kentucky=*Polytaenia nuttallii* DC.
- ***PAXIACTES** Raf. Good Book 60. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 60=*Heracleum* Linn.
- PELTACTILA** Raf. New Fl. N. Am. 4:28. 1836 [1838], *descr.*; Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55=*Daucus* Linn.
- aurea* Raf. New Fl. N. Am. l.c., *nom.* (*Daucus aureus* Desf.). Mediterranean region.
- grandiflora* Raf. l.c., *nom.* (*Daucus grandiflorus* Desf.). Algeria.
- hispida* Raf. l.c., *nom.* (*Daucus hispidus* Desf.). Mediterranean region.
- parviflora* Raf. l.c., *nom.* (*Daucus parviflorus* Desf.). North Africa.
- ***PERFOLISA** Raf. Good Book 54. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 54=*Bupleurum* Linn.
- **obtusifolia* Raf. l.c., *nom.* (*Bupleurum rotundifolium* Linn.). Europe.
- ***PEUCEDANON** Raf. New Fl. N. Am. 4:20. 1836 [1838], *nom.* sub *Sataria* Raf.=*Peucedanon* St. Hil. (1880)=*Peucedanum* Linn.
- PEUCEDANUM** Linn.
- verticillatum* Raf. Fl. Ludovic. 81. 1817, *descr.* (*Peucedanum* Rob. Voy. Louis. 3:461. 1807). Louisiana=? *Ptilimnium nuttallii* (DC.) Britton.
- PHAIOSPERMA** Raf. Herb. Raf. 77. 1833, *descr.*; New Fl. N. Am. 4:32. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=*Polytaenia* DC. (1829).
- pulverulenta* Raf. New Fl. N. Am. 4:32. 1836 [1838], *descr.*; Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55. Florida=*Polytaenia nuttallii* DC.
- trifida* Raf. Herb. Raf. 77. 1833, *descr.*; New Fl. N. Am. l.c., *descr.*; Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55. Kentucky=praec.
- **verticillata* Raf. Herb. Raf. 77. 1833, *descr.*; New Fl. N. Am. l.c., *nom.* Kentucky=praec.
- PHELLANDRIUM** Linn.=*Oenanthe* Linn.
- **tuberosum* Nutt. ex Raf. New Fl. N. Am. 4:29. 1836 [1837], *nom.* in syn. sub *Entaskion tuberosum* Raf. North America=*Trepocarpus aethusae* Nutt.
- ***PINASGELON** Raf. Good Book 51. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 51=*Cnidium* Cusson (1782).
- **monniera* Raf. op. cit. 52, *nom.* (*Selinum monnieri* Linn.). Europe=*Cnidium monnieri* (Linn.) Cusson.
- ***POLGIDON** Raf. Good Book 53. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 53=*Chaerophyllum* Linn.
- **bulbosum* Raf. l.c., *nom.* (*Chaerophyllum bulbosum* Linn.). Europe, Asia Minor.
- **temulum* Raf. l.c., *nom.* (*Chaerophyllum temulum* Linn.). Europe, North Africa, Asia Minor.
- ***POLYTEMIA** Raf. Herb. Raf. 77. 1833, *nom.*, *sphalm.*=*Polytenia* Raf. (1836)=*Polytaenia* DC. (1829).
- **trifida* Raf. l.c., *nom.* alt. *Phaiosperma trifida* Raf. Kentucky=*Polytaenia nuttallii* DC.
- **verticillata* Raf. l.c., *nom.* alt. *Phaiosperma verticillata* Raf. Kentucky=*Polytaenia nuttallii* DC.
- POLYTENIA** Raf. New Fl. N. Am. 4:33. 1836, *nom.* in syn. sub *Pachiloma* Raf.; Herb. Raf. 77. 1833, *nom.*=*Polytaenia* DC.
- PRIONITIS** Adans.; Raf. Good Book 58. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 58=*Falcaria* Host. (1827).
- **falcaria* Raf. l.c., *nom.* (*Sium falcaria* Linn.). Europe=*Falcaria sioides* (Wibel) Aschers.
- ***PTERATON** Raf. Good Book 54. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 54=*Bupleurum* Linn.
- **fragrans* Raf. l.c., *nom.* (*Bupleurum coriaceum* L'Hérit.; *B. arborescens* Jacq.; *B. obliquum* Vahl; *B. gibraltarium* Lam.). Spain=*Bupleurum gibraltarium* Lam.
- PTILIMNIUM** Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom.*, *nota* (*Ammi capillaceum* Michx.); Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.*, *nota* (*Ammi capillaceum* Michx.); Neogen. 2. 1825, *descr.*; Seringe Bull. Bot. 1:217. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 82. 1833; Act. Soc. Linn. Bordeaux 6:268. 1834, *nom.* (*Discopleura* DC., 1830); New Fl. N. Am. 4:33. 1836 [1838], *nom.*, *nota* (*Discopleura* DC., 1830); Good Book 55. 1840, *nom.* (*Discopleura* DC., 1830), 1913 repr. Scad. Gen. Omb. Pl. 55 (*Discopleura* DC., 1830).
- †*capillaceum* (Michx.) Raf. Seringe Bull. Bot. 1:217. 1830, *nom.* (*Ammi capillaceum* Michx.), iter. Schlecht. l.c.; Herb. Raf. 70. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay (*Discopleura capillacea* DC.).
- †*costatum* (Ell.) Raf. Seringe Bull. Bot. l.c., *nom.* (*Ammi costatum* Ell.), iter. Schlecht. l.c. Southeastern United States (*Ptilimnium costatum* Coult. & Rose, 1909).
- †*juncum* Raf. l.c., *descr.*, iter. Schlecht. l.c.; Herb. Raf. 77. 1833, *descr.*; New Fl. N. Am. 4:34. 1836 [1838], *nom.*, *nota*. Western Kentucky=*Ptilimnium capillaceum* (Michx.) Raf.
- ***PULLIPES** Raf. Good Book 54. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 54=*Caucalis* Linn.
- **leptophylla* Raf. l.c., *nom.* (*Caucalis leptophylla* Linn.). Mediterranean region.
- ***RAZULIA** Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Angelica* Linn.
- **alpina* Raf. l.c., *nom.* (*Angelica razuli* Gouan). Pyrenees Mountains.
- ***SAGAPENON** Raf. Good Book 58. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 58 (*Danaa* All. 1785)=*Physospermum* Cusson (1782).
- **aquilegifolium* Raf. l.c., *nom.* (*Ligusticum aquilegifolium* Willd.; *Danaa aquilegifolia* All.). Southern Europe=*Physospermum aquilegifolium* (All.) Koch.
- SATARIA** Raf. New Fl. N. Am. 4:20. 1836 [1838], *descr.*; Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55=*Oxypolis* Raf. (1825).
- linearis* Raf. New Fl. N. Am. 4:21. 1836 [1838], *descr.* (*Peucedanum ternatum* Nutt.); Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55. Georgia, Alabama=*Oxypolis ternata* (Nutt.) Heller.
- var. *longipes* Raf. New Fl. l.c., *descr.*
- ***SCADIASIS** Raf. New Fl. N. Am. 4:34. 1836 [1838], *nom.* nov. provis. (*Ferula villosa* Walt.); Good Book 56. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Angelica* Linn.
- SELINON** Raf. Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.* nov. *Selinum* Linn.
- **acaule* Raf. Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *nom.* (*Selinum acaule* Pursh), iter. Isis von Oken 1820, 1: Lit. Anz. 239. 1820, *nom.* (*Selinum acaule* Pursh). Central United States=*Cymopterus acaulis* (Pursh) Raf.

- **carvifolia* Raf. Good Book 51. 1840, *nom.* in syn. sub *Chabrea* Raf., 1913 repr. Scad. Gen. Omb. Pl. 51=*Selinum carvifolium* Linn. Europe.
- **chabrei* Raf. l.c., *nom.* [*Selinum chabraei* Kunth]=*Cnidium dubium* (Schkuhr) Thellung. Europe.
- **palustre* Raf. Good Book 52. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Selinum palustre* Linn.=*Peucedanum palustre* (Linn.) Moench. Europe.
- **SIFLORA* Raf. Seringe Bull. Bot. 1:217. 1830, *nom.* sub *Spermolepis* Raf., iter. Schlecht. Linnaea 8: Lit.-Ber. 82. 1833, *sphalm.*=*Sison* Linn.
- **pusilla* Raf. l.c., *nom.*, iter. Schlecht. l.c. (*Sison pusillum* Michx.). Southeastern United States=*Spermolepis divaricata* (Walt.) Raf.
- **SIKIRA* Raf. Good Book 53. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 53=*Chaerophyllum* Linn.
- **aromatica* Raf. l.c., *nom.* (*Chaerophyllum aromaticum* Linn.) Europe.
- **hirsuta* Raf. l.c., *nom.* (*Chaerophyllum hirsutum* Linn.) Europe.
- **SILAUS* Raf. Good Book 57. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 57=*Silaus* Bernh. (1800)=*Silaum* Mill. (1754).
- **pratensis* Raf. l.c., *nom.* (*Peucedanum silaus* Linn.). Europe=*Silaum silaus* (Linn.) Schinz & Thellung (*Silaus flavescens* Bernh.).
- **SILERIUM* Raf. Good Book 51. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 51=*Trochiscanthus* Koch (1824).
- **nodiflorum* Raf. l.c., *nom.* (*Smyrniun nodiflorum* All.; *Ligusticum nodiflorum* Vill.; *Angelica paniculata* Lam.). Southern Europe=*Trochiscanthus nodiflorus* (All.) Koch.
- SIUM** Linn.
- **heterophyllum* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay=*S. suave* Walt.
- rugosum* Raf. Med. Fl. 2:264. 1830, *nom.*, *nota*; Atl. Jour. 1:151. 1832, *descr.* New York to Ohio=*S. suave* Walt.
- SIUMIS** Raf. New Fl. N. Am. 4:31. 1836 [1838], *nom.*, *nov.* *Sium* Linn.; Good Book 50. 1840, *descr.* (*Sium* Linn.; *Sion* Adans.), 1913 repr. Scad. Gen. Omb. Pl. 50=*Sium* Linn.
- heterophyla* Raf. New Fl. N. Am. 4:31. 1836 [1838], *descr.* [*Sium heterophyllum* Raf.]. New Jersey to Illinois=*Sium suave* Walt.
- SPERMOLEPIS** Raf. Neogen. 2. 1825, *descr.*; Seringe Bull. Bot. 1:217. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 82. 1833 (*Leptocaulis* Nutt., 1829).
- †*divaricata* (Walt.) Raf. Seringe Bull. Bot. 1:217. 1830, *descr.* (*Sison pusillum* Michx.; *Daucus divaricatus* Walt.; *Anmi divaricata* Pers.; *Ligusticum pusillum* Pers.), iter. Schlecht. Linnaea 8: Lit.-Ber. 82. 1833. Eastern North America.
- STAFLINUS** Raf. New Fl. N. Am. 4:28. 1836 [1838], *descr.*; Good Book 55. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 55=*Daucus* Linn.
- crinitus* Raf. ll.cc., *nom.* (*Daucus setifolius* Desf.). North Africa.
- setifolius* Raf. ll.cc., *nom.* (*Daucus setifolius* Desf.). North Africa.
- ***STOIBRAX** Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Carum* Linn.
- **dichotomum* Raf. l.c., *nom.* (*Pimpinella dichotoma* Linn.) Mediterranean region=*Carum dichotomum* (Linn.) Benth. & Hook. f.
- STREBANTHUS** Raf. Seringe Bull. Bot. 1:218. 1830, *descr.*, iter. Schlecht. Linnaea 8: Lit.-Ber. 82. 1833=*Streblanthus* Raf. (1832)=*Eryngium* Linn.
- auriculatus* Raf. l.c., *descr.*, iter. Schlecht. l.c. Western Kentucky=*Streblanthus auriculatus* Raf.=*Eryngium prostratum* Nutt.
- gracilis* Raf. ex Jacks*. Ind. Kew. 2:1002. 1895=*Streblanthus gracilis* Raf.=*Eryngium baldwini* Spreng. Florida.
- heterophylus* Raf. ex Jacks*. l.c.=*Streblanthus heterophylus* Raf.=*Eryngium prostratum* Nutt. Arkansas.
- humilis* Raf. ex Jacks*. l.c.=*Streblanthus humilis* Raf.=*Eryngium baldwini* Spreng. Florida.
- tenuifolius* Raf. ex Jacks*. l.c.=*Streblanthus tenuifolius* Raf.=*Eryngium baldwini* Spreng. Florida.
- STREBLANTHUS** Raf. Atl. Jour. 1:149. 1832, *descr.*; New Fl. N. Am. 4:34. 1836 [1838], *descr.*; Herb. Raf. 77. 1833, *nom.*; Good Book 56. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Eryngium* Linn.
- **auriculatus* Raf. Atl. Jour. 1:149. 1832, *descr.*; Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 4:35. 1836 [1838], *descr.*; Good Book 56. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 56. Western Kentucky=*Eryngium prostratum* Nutt.
- **gracilis* Raf. New Fl. N. Am. 4:36. 1836 [1838], *descr.* (*Eryngium gracile* Baldw.). Florida=*Eryngium baldwini* Spreng.
- **heterophylus* Raf. op. cit. 35, *descr.* (*Eryngium prostratum* Nutt.); Good Book 56. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 56. Arkansas=*Eryngium prostratum* Nutt.
- **humilis* Raf. ll.cc., *descr.*, *nom.* (*Eryngium gracile* sensu Torr., *E. baldwini* Spreng.). Florida (Tampa)=*Eryngium baldwini* Spreng.
- **tenuifolius* Raf. New Fl. N. Am. 4:36. 1836 [1838], *descr.* (*Eryngium polycephalum* Baldw.). Florida=*Eryngium baldwini* Spreng.
- ***TEPSO** Raf. Good Book 54. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 54=*Bupleurum* Linn.
- **odontites* Raf. l.c., *nom.* (*Bupleurum odontites* Linn.). Mediterranean region.
- THASPIUM** Nutt.
- **tenuifolium* Raf. Herb. Raf. 78. 1833, *descr.*; New Fl. N. Am. 4:34. 1836 [1838], *nom.*, *nota*. Kentucky?=? *Oxyopolis rigidior* (Linn.) Coult. & Rose.
- ***THYSELIMUM** Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Peucedanum* Linn.
- **palustre* Raf. l.c., *nom.* (*Selinum palustre* Linn.)=*Peucedanum palustre* (Linn.) Moench. Europe.
- ***TIMORON** Raf. Good Book 56. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 56=*Capnophyllum* Gaertn. (1791).
- **dichotomum* Raf. l.c., *nom.* (*Conium dichotomum* Desf.)=*Capnophyllum dichotomum* Lag. Mediterranean region.
- TRICTA** Raf. New Fl. N. Am. 4:22. 1836 [1838], *descr.*; Good Book 46, 54. 1840, *nom.*, 1913 repr. Scad. Gen. Omb. Pl. 46, 54=*Daucus* Linn.
- daucoides* Raf. op. cit. 23, *descr.*; Good Book ll.cc., *nom.*, 1913 repr. Scad. Gen. Omb. Pl. ll.cc., *nom.*; Aut. Bot. 106. 1840, *nom.* Pine barrens of southern New Jersey=*Daucus carota* Linn.
- ***TOBION** Raf. Good Book 52. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 52=*Pimpinella* Linn.
- **bubonoides* Raf. l.c., *descr.* (*Pimpinella bubonoides* DC.; *Apium lusitanicum* Mill.). Spain, Morocco.
- ***TRAGOLINUM** Raf. Good Book 60. 1840, 1913 repr. Scad. Gen. Omb. Pl. 60, *nom. nov.* *Tragoselinum* Adans. (1763)=*Pimpinella* Linn.
- TRICLINUM** Raf. Ludovic. 79. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.* (*Sanicula marilandica* Linn.); op. cit. 4:192. 1819, *nom.*, *nota*=*Sanicula* Linn.
- marilandicum* (Linn.) Raf. ex Jacks*. Ind. Kew. 2:1110. 1895 (*Sanicula marilandica* Linn.). Eastern North America=*Sanicula marilandica* Linn.
- odoratum* Raf. Fl. Ludovic. 80. 1817, *descr.* (*Panax* Rob. Voy. Louis. 3:459. 1807). Louisiana=? *Sanicula gregaria* Bickn. 1895 (? *S. odorata* Bickn., 1897).
- ***TROCDARIS** Raf. Good Book 50. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 50=*Carum* Linn.
- **verticillata* Raf. l.c., *nom.* (*Sison verticillatum* Linn.; *Sium verticillatum* Lam.). Europe=*Carum verticillatum* (Linn.) Koch.
- ***TROPENTIS** Raf. Good Book 59. 1840, *descr.*, 1913 repr. Scad. Gen. Omb. Pl. 59=*Seseli* Linn.
- **sibirica* Raf. l.c., *nom.* ([*Ligusticum sibiricum* Spreng.]; *Ligusticum foliis triplicato pinnatis* Gmel. Fl. Sibir. 1:196. t. 45. 1747). Siberia=*Seseli sibirica* (Linn.) Koch, var. *sibiricum* (Linn.) Thellung.
- **retzii* Raf. l.c., *nom.* (*Ligusticum retzii* Vitm.; *L. peloponense* Retz.). Greece.
- ***TURBITHA** Raf. Good Book 51. 1840, *descr.*, 1913 repr. Scad. Gen. Umb. Pl. 51=? *Athamanta* Linn.
- **emulans* Raf. l.c., *nom.* (*Seseli turbita* Linn.) Europe=? *Athamanta matthioli* Wulf.
- UPOION** Raf. New Fl. N. Am. 4:29. 1836 [1838], *descr.*; Good Book 46, 55. 1840, *nom.*, *nota*, 1913 repr. Scad. Gen. Omb. Pl. 46, 55=*Thaspium* Nutt. (1818).
- cordatum* Raf. op. cit. 31, *descr.*, l.c., *nom.* Alleghany Mountains=*Thaspium trifoliatum* (Linn.) A. Gray.
- heterophyllum* Raf. ll.cc., *descr.*, *nom.* (*Thaspium atropurpureum* Nutt.; *Smyrniun atropurpureum* Lam.)=præc.

UPOPION (continued).

- lobatum* Raf. op. cit. 30, *descr.*, l.c., *nom.* Alleghany Mountains of Pennsylvania and Virginia=praec.
var. rigida Raf. l.c., *descr.*
pinnatum Raf. l.c., *descr.*, *nom.* Alleghany Mountains and Kentucky=praec.
trifoliatum Raf. l.c., *descr.*, *nom.* New Jersey to Kentucky=praec.
VISNAGA Gaertn.; Raf. New Fl. N. Am. 4:28. 1836 [1838], *descr.*; Good Book 55. 1840, *nom.* 1913 repr. Scad. Gen. Omb. Pl. 55 (*Gohoria* Neck.)=Ammi Linn.
meoides Raf. l.c., *nom.* [*Ammi meoides* Pers.]. Asia.
vera Raf. l.c., *nom.* [*Ammi visnaga* Lam.]. Mediterranean region.
WASHINGTONIA Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom. nov. provis.* *Myrrhis* sensu Michx.=Osmorhiza Raf. (1818).
***ZIGARA** Raf. Good Book 54. 1840, *descr.*, 1913, repr. Scad. Gen. Omb. Pl. 54=Bupleurum Linn.
**teuis* Raf. l.c., *nom.* (*Bupleurum tenue* Salisb.). Mediterranean region.
ZIZIA Koch.
parvifolia Raf. New Fl. N. Am. 4:31. 1836 [1838], *descr.* Alleghany Mountains=? *Thaspium trifoliatum* (Linn.) A. Gray, *var. flavum* Blake, *Rhodora* 20:33. 1918.

CORNACEAE**CORNUS** Linn.

- atrata* Raf. Alsogr. Am. 61. 1838, *descr.* Alabama, Florida.
cinerea Raf. op. cit. 59, *descr.* Alleghany Mountains.
comosa Raf. op. cit. 63, *descr.* Kentucky=C. racemosa Lam.
**cyananthes* Raf. l.c., *descr.* Canada=seq.
cyananthus Raf. Atl. Jour. 1:151. 1832, *descr.* Canada (Islands of the Saint Lawrence River).
dichotoma Raf. Alsogr. Am. 60. 1838, *descr.* Siberia.
lancifolia Raf. l.c., *nom. alt.* *Cornus serotina* Raf. Kentucky, Illinois, Missouri.
†obliqua Raf. Western Rev. Miscel. Mag. 1:229. 1819, *descr.*; Ann. Nat. Ann. Synop. 13. 1820, *descr.* Kentucky River (*C. purpusii* Koehne).
**obliquata* Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.* Kentucky=praec.
oblongifolia Raf. ex DC. Prodr. 4:272. 1830, *nom.* sub *Cornus sericea* L'Hérit. *var. oblongifolia* DC. l.c. Eastern North America=C. amomum Mill.
parvifolia Raf. Alsogr. Am. 61. 1838, *descr.* Kentucky to Alabama.
polygama Raf. Fl. Ludovic. 78. 1817, *descr.* (*Cornus* 2 Rob. Voy. Louis. 3:456. 1807); Herb. Raf. 55. 1833, *nom.* Med. Fl. 2:213. 1830, *nom.*; Alsogr. Am. 61. 1838, *descr.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana=? *C. obliqua* Raf.
punctata Raf. Alsogr. Am. 62. 1838, *descr.* Near Lake Erie=C. alternifolia Linn.
riparia Raf. l.c., *descr.* Virginia and Kentucky=praec.
var. rugosa Raf. l.c., *descr.* New York to Virginia.
rotundifolia Raf. l.c., *descr.* Alleghany Mountains=praec.
†serotina Raf. First Cat. Bot. Gard. Transylv. Univ. 12. 1824, *nom.*; Herb. Raf. 57. 1833, *nom.*; Alsogr. Am. 60. 1838, *descr.* Kentucky, Illinois, Missouri.
**sibirica* Raf. Alsogr. Am. 60. 1838, *descr.* (*Cornus alba* auct.). Siberia=Cornus alba Linn. subsp. *tatarica* (Mill.) Wang.
suffruticosa Raf. Atl. Jour. 1:151. 1832, *descr.*; Herb. Raf. 57. 1833, *nom.*; Alsogr. Am. 61. 1838, *descr.* Near Lakes Champlain and Erie.
undulata Raf. Alsogr. Am. 61. 1838, *descr.* Alabama=C. alternifolia Linn.
#CYNOSYLLON Raf. Med. Fl. 1:132. 1828, *nom.*, sect. *Cornus* Linn., iter. Man. Med. Bot. 132. 1841; Alsogr. Am. 59. 1838, *descr.* (gen. vel subgen., op. cit. 58)=Cornus Linn., sect. *Cynosylon* Raf. (Benthamidia Spach, 1839); see Hutchinson Ann. Bot. II. 6:91-92. 1942.
floridum Raf. ex Jacks*. Ind. Kew. 1:689. 1893 (*Cornus florida* Linn.). North America.
EUKRANIA Raf. Alsogr. 59. 1838, *descr.*=Cornus Linn., sect. *Macrocarpum* Spach.
canadensis Raf. ex Jacks*. Ind. Kew. 1:912. 1893 (*Cornus canadensis* Linn.). North America.

- cyananthes* Raf. ex Jacks*. l.c. (*Cornus cyananthes* Raf.). North America.
mascula Raf. ex Jacks*. l.c. (*Cornus mascula* Linn.)=Cornus mas Linn. Europe (*Macrocarpum mas* Nakai).
suecica Raf. ex Jacks*. l.c. (*Cornus suecica* Linn.). Europe. (*Chamaepericlymenum suecicum* Aschers. & Graebn.).
#KRANIOPSIS Raf. Alsogr. Am. 58. 1838, *descr.* subgen. *Cornus* Linn.=Cornus Linn. sect. *Thelycrania* (Endl.) C. A. Meyer.
#MESOMERA Raf. Alsogr. Am. 58. 1838, *descr.*, subgen. *Cornus* Linn. (Type *Cornus alternifolia* Linn.), *sphalm.*=seq.
#MESOMORA Raf. Alsogr. Am. 59, 62, 76, 1838, *nom.*, subgen. *Cornus* Linn. [*Mesomora* Rudb. Lapp. 98. ex Linn. Fl. Suecica 47. 1745, ed. 2, 48. 1755, sub *Cornus suecica* Linn.]=Cornus Linn.
TELUKRAMA Raf. Alsogr. Am. 64. 1838, *descr.* Good Book 48. 1840, *nom.*=? Cornus Linn.
obovata Raf. l.c., *descr.* Mountains of Carolina.

CLETHRACEAE**CLETHRA** Linn.

- *angustifolia* Raf. Aut. Bot. 6. 1840, *descr.*, non DC. (1838). Florida=C. alnifolia Linn.
**bracteata* Raf. op. cit. 7, *descr.*, non Griseb. (1859). Florida.
**cordata* Raf. l.c., *descr.* "probably African."
**cuneifolia* Raf. Herb. Raf. 57. 1833, *nom.* Florida.
**pumila* Raf. Aut. Bot. 7. 1840, *descr.* Southern New Jersey=Clethra alnifolia Linn.

PIROLACEAE**BRAXILIA** Raf. Aut. Bot. 102. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=Pyrola Linn. (*Erxlebenia* Opiz, 1852).

- *heterophylla* Raf. op. cit. 103, *descr.* Alleghany Mountains.
**media* Raf. l.c., *descr.* (*Pyrola minor* auct. nonnul.). England, Germany. (*Braxilia minor* House; *Erxlebenia minor* Rydb.).
parvifolia Raf. op. cit. 102, *descr.* (*Pyrola minor* Linn.); Pennell, l.c., *nom.* Sweden, Labrador. (*Braxilia minor* House; *Erxlebenia minor* Rydb.).
**squamata* Raf. op. cit. 103, *descr.* Labrador.
**viridiflora* Raf. l.c., *descr.* Alleghany Mountains of Pennsylvania.

CHIMAPHILA Pursh.

- durandi* Raf. Atl. Jour. 1:119. 1832, *nom. alt.* *Pyrola durandi* Raf. Maryland=seq.
maculata (Linn.) Pursh. North America.
var. durandi Raf. Aut. Bot. 105. 1840, *descr.* (*Chimaphila durandi* Raf.). Maryland.
heterophylla Raf. l.c., *nom.*
lanceolata Raf. l.c., *nom.*
ovata Raf. l.c., *nom.*
uniflora Raf. l.c., *nom.*

HYPOPITHIS Raf. Med. Repos. III. 1:297. 1810, *nom.*, *nota*=seq.

- *dentata* Raf. l.c., *descr.* Virginia and Maryland.
**lanuginosa* Raf. l.c., *descr.* (*Monotropa lanuginosa* Michx.). Carolina.
**racemosa* Raf. l.c., *descr.* Maryland, Pennsylvania.
**secunda* Raf. l.c., *descr.* (*Monotropa lanuginosa* Michx., *var. [spica cernua et erecta floribus secundis]* Michx.). Carolina.
**stricta* Raf. l.c., *descr.* Maryland.

HYPOPITYS Adans.

- dentata* Raf. ex Jacks*. Ind. Kew. 1:1198. 1893 (*Hypopithis dentata* Raf.). Virginia and Maryland.
lanuginosa Raf. ex Jacks*. l.c. (*Hypopithis lanuginosa* Raf.). Carolina.
racemosa Raf. ex Jacks*. l.c. (*Hypopithis racemosa* Raf.). Maryland, Pennsylvania.
secunda Raf. ex Jacks*. l.c. (*Hypopithis secunda* Raf.). Carolina.
stricta Raf. ex Jacks*. l.c. (*Hypopithis stricta* Raf.). Maryland.

MONOTROPA Linn.

- *procera* James ex Raf. Casket 1832:91. 1832, *nom.*, *nota*; Sat. Eve. Post 11(552):[4]. 1832, *nom.*, *nota*. New York (Albany)=Pterospora andromedea Nutt.

- ODOSTIMA** Raf. Aut. Bot. 104. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Moneses Salisb.* (1821).
**acutiflora* Raf. op. cit. 105, *descr.* Labrador to New York=*Moneses uniflora* (Linn.) A. Gray.
**caulina* Raf. op. cit. 104, *descr.* (*Pyrola uniflora* Linn.). Northern Europe=*Moneses uniflora* (Linn.) A. Gray.
**grandiflora* Raf. op. cit. 105, *descr.* Canada=*Moneses uniflora* (Linn.) A. Gray.
**obovata* Raf. l.c., *descr.* New England=*Moneses uniflora* (Linn.) A. Gray.
**orbiculata* Raf. op. cit. 104, 105, *descr.* Europe=*Moneses uniflora* (Linn.) A. Gray.
ORTHILIA Raf. Aut. Bot. 103. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Pyrola* Linn. (*Ramischia* Opiz, 1852).
**dentata* Raf. op. cit. 104, *descr.* Alleghany Mountains.
parvifolia Raf. l.c., *descr.* (*Pyrola secunda* Linn.); Pennell, l.c., *nom.* Bavaria=*Pyrola secunda* Linn. (*Orthilia secunda* House).
**procumbens* Raf. l.c., *descr.* Canada, New England, New York.
#ORTHYLIA Raf. Med. Fl. 2:70. 1830, *descr.*, subgen. *Pyrola* Linn. (Type *Pyrola minor* Linn.)=praec.
***PIPSEVA** Raf. Aut. Bot. 105. 1840, *descr.*=*Chimaphila* Pursh (1814).
**officinalis* Raf. op. cit. 106, *nom.* (*Pyrola umbellata* Linn.; *Chimaphila corymbosa* Pursh). North America, Europe=*Chimaphila umbellata* (Linn.) Pursh, var. *cisatlantica* Blake.
var. *angustifolia* Raf. l.c., *nom.*
cuneifolia Raf. l.c., *nom.*
multiflora Raf. l.c., *nom.*
pauciflora Raf. l.c., *nom.*
†PSEVA Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom.*, *nota* (*Chimaphila* Pursh, 1814); Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.* (*Chimaphila* Pursh)=*Chimaphila* Pursh (1814).
#PSISEVA Raf. Med. Fl. 2:70. 1830, *descr.*, subgen. *Pyrola* Linn. (Type *Pyrola umbellata* Linn.)=*Pseva* Raf. (1818)=*Chimaphila* Pursh (1814).
PTEROSPORA Nutt.
andromedeae Nutt.
var. *elatiore* Raf. Med. Fl. 2:68. 1830, *nom.*; Casket 1832: 91. 1832, *nom.*; Sat. Eve. Post 11(552):[4] 1832, *nom.*
flavicaulis Raf. l.c., *nom.*
leucorhiza Raf. l.c., *nom.*
pauciflora Raf. l.c., *nom.*
PYROLA Linn.
**bifolia* Raf. Aut. Bot. 100. 1840, *descr.* Germany.
**cespitosa* Raf. op. cit. 101, *descr.* (*Pyrola rotundifolia* sensu Torr.). New York=*Pyrola americana* Sweet.
durandi Raf. Atl. Jour. 1:119. 1832, *descr.* Maryland, near Baltimore (*Chimaphila durandi* Raf.)=*Chimaphila maculata* (Linn.) Pursh.
flexuosa Raf. Atl. Jour. 1:151. 1832, *descr.* Islands of the Saint Lawrence River near Lake Ontario.
**grandiflora* Raf. Aut. Bot. 101. 1840, *descr.* Labrador.
**heterophylla* Raf. l.c., *descr.* (*Pyrola rotundifolia* sensu Torr.). New York to Virginia=*Pyrola americana* Sweet).
**hybrida* Raf. l.c., *descr.* Alleghany Mountains.
var. *pauciflora* Raf. l.c., *nom.*
uniflora Raf. l.c., *nom.*
**monophylla* Raf. op. cit. 100, *nom. alt.* *P. orbiculata* Raf. var. *unifolia* Raf. Germany.
**obovata* Raf. l.c., *descr.* Alleghany Mountains.
**orbiculata* Raf. var. *unifolia* Raf. l.c., *descr.* Germany=*Pyrola monophylla* Raf.
**ovata* Raf. op. cit. 102, *descr.* Alleghany Mountains.
**petiolaris* Raf. op. cit. 99, *descr.* Bohemia.
reticulata Raf. ex DC. Prodr. 7:773. 1839, *nom.* in syn.; Raf. op. cit. 100, *descr.* (*Pyrola rotundifolia* auct. Am.). Alleghany Mountains=*Pyrola elliptica* Nutt.
**subcordata* Raf. op. cit. 102, *descr.* England, Germany.
**unifolia* Raf. op. cit. 100, *descr.* New Jersey.
**virgata* Raf. op. cit. 102, *descr.* Appalachian Mountains.
SCHWEINITZIA Ell. (1817)=*Monotropis* Schwein. (1817).
**odorata* Raf. Am. Monthly Mag. Crit. Rev. 3:99. 1818, *nom.*; Small, N. Am. Fl. 29:15. 1914, *nom.* in syn.=*Monotropis odorata* Schwein.
#STREPTILIA Raf. Aut. Bot. 99. 1840, *nom.*, *nota*, subgen. *Pyrola* Linn. (Type *Pyrola elliptica* Nutt.)=*Pyrola* Linn.

- #STREPTYLIA** Raf. Med. Fl. 2:70. 1830, *descr.*, subgen. *Pyrola* Linn. (Type *Pyrola rotundifolia* Linn.)=*Pyrola* Linn.
#TOXILIS Raf. Aut. Bot. 101. 1840, *descr.*, subgen. *Pyrola* Linn. (Type *Pyrola grandiflora* Raf.).

ERICACEAE

- ANDROMEDA** Linn.
**obovata* Raf. Herb. Raf. 57. 1833, *nom.* Florida=*Lyonia lucida* (Lam.) K. Koch.
**pauciflora* Raf. l.c., *nom.* Appalachian Mountains.
ARBUTUS Linn.
obtusifolia Raf. Fl. Ludovic. 55. 1817, *descr.* (*Arbutus* Rob. Voy. Louis. 3:421. 1807); New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana=*Vaccinium arboreum* Marsh. (1785); see Camp, Castanea 6:83. 1941.
AZALEA Linn.=*Rhododendron* Linn.
fragrans Raf. Ann. Nat. Ann. Synop. 12. 1820, *descr.*, non Adams (1808). Maryland, Virginia=*Rhododendron arborescens* (Pursh) Torr. (*Azalea arborescens* Pursh).
BLAIRIA Gled.=*Blaeria* Linn.
**pentandra* Raf. Aut. Bot. 15. 1840, *nom.* sub *Vestia* Willd.=*Vestia lycioides* Willd. Chile.
†DIPLARIA Raf. Herb. Raf. 58. 1833, *nom.*; DC. Prodr. 7:610. 1839, *nom.* in syn. sub *Cassandra* G. Don=*Chamaedaphne* Moench. (1794).
**ferruginea* Raf. Herb. Raf. l.c., *nom.* (*Andromeda calyculata* Linn.). Europe, Asia, North America=*Chamaedaphne calyculata* (Linn.) Moench.
**lanceolata* Raf. l.c., *nom.* Appalachian Mountains.
EXOLEPTA Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom.*, *nota* (*Andromeda calyculata* Linn.)=*Chamaedaphne* Moench. (1794).
GAULTHERIA Linn.
repens Raf. ex Jacks*. Ind. Kew. 1:1004. 1893 (*Gautiera repens* Raf.; *Gaultheria procumbens* Linn.). Eastern North America=G. *procumbens* Linn.
***GAULTIERA** Raf. Fl. Tellur. 1:18. 1836 [1837], *nom.*=praec.
GAUTIERA Raf. Med. Fl. 1:202. f. 40. 1828, *descr.*, iter. Man. Med. Bot. 202. f. 40. 1841; Med. Fl. 2:222. 1830, *nom.*, *nota*=*Gaultheria* Linn.
**repens* Raf. Med. Fl. et Man. Med. Bot. l.c., *nom. nov.* *Gaultheria procumbens* Linn. North America.
**hispidula* Raf. op. cit. 205, *nom.* [*Gaultheria hispidula* Muhl.] North America=*Chiogenes hispidula* (Linn.) Torr. & Gray.
GLYCIPHLYLLA Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom.*, *nota* (*Vaccinium hispidulum* Michx.; *Gaultheria serpyllifolia* Pursh); Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.*, *nota*; Med. Fl. 2:49. 1830, *descr.* (subgen. *Oxyccus* Raf.)=*Chiogenes Salisb.* (1817).
hispidula Raf. ex Jacks*. Ind. Kew. 1:1039. 1893 (*Vaccinium hispidulum* Michx.; *Gaultheria serpyllifolia* Pursh). North America=*Chiogenes hispidula* (Linn.) Torr. & Gray.
***GUALTERIA** Raf. Fl. Tellur. 1:18. 1836 [1837], *nom.* (*Gaultheria* Raf.)=*Gaultheria* Linn.
***HEMICLIS** Raf. New Fl. N. Am. 4:107. 1836 [1838], *nom.*, *nota*, sub *Lyonsia* Raf., *nom. nov.* *Lyonia* Nutt. (1818), non Ell. (1817)=*Lyonia* Nutt. (1818), *nom. conserv.* (*Xolisma* Raf., 1819).
***HEMIDIS** Raf. Herb. Raf. 57. 1833, sub *Andromeda pauciflora* Raf., *nom.*, *sphalm.*=praec.
IPOSUES Raf. Aut. Bot. 186. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*=*Rhododendron* Linn.
obovata Raf. op. cit. 187, *descr.*; Pennell, l.c., *nom.* Asia=*Rhododendron* sp.
KALMIA Linn.
**elliptica* Raf. Aut. Bot. 87. 1840 sub *K. lanceolata* Raf., *nom. nov.* *K. angustifolia* Linn. North America.
**ferruginea* Raf. Aut. Bot. 86. 1840, *descr.* Alleghany Mountains=? *K. angustifolia* Linn.
**lanceolata* Raf. Aut. Bot. 86. 1840, *descr.* Southern New Jersey=? *K. polifolia* Wangerh.
latifolia Linn. North America.
var. *acuminata* Raf. Med. Fl. 2:17. 1830, *nom.*
alba Raf. l.c., *descr.*
arborea Raf. l.c., *nom.*
maculata Raf. l.c., *descr.*
ovatifolia Raf. l.c., *nom.*
ternata Raf. l.c., *descr.*

LEIOPHYLLUM Hedwig f.

**thymifolium* Raf. Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom., nota* (*Ammyrsine buxifolia* Pursh); Steud. Nomencl. 469. 1821. New Jersey=*Leiophyllum buxifolium* (Berg.) Ell.

***LEIOPHYLLUM** Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom., nota, sphalm.*=*praec.*

OXYCOCA Raf. Med. Fl. 2:48. 1830, *descr.*=*Oxycoccus* Adans. (1763)=*Vaccinium* Linn.

**berberidea* Raf. op. cit. 49, *descr.* New Jersey=? *Vaccinium macrocarpon* Michx.

berberidea Raf. ex Jacks*. Ind. Kew. 2:392. 1894=*praec.*

**erythrocarpa* Raf. Med. Fl. l.c., *descr.* (*sphalm. Ozycoxa*) North Carolina=*Oxycoccus erythrocarpus* Pers.=*Vaccinium erythrocarpon* Michx.

**hispidula* Raf. l.c., *descr.* North America=*Oxycoccus hispidulus* Pers.=*Chiogenes hispidula* (Linn.) Torr. & Gray.

macrocarpa Raf. op. cit. 48. North America=*Oxycoccus macrocarpus* Pers.=*Vaccinium macrocarpon* Ait.

var. *coccinea* Raf. op. cit. 50, *descr.*

globosa Raf. l.c., *descr.*

maculata Raf. l.c., *descr.*

ovata Raf. l.c., *descr.*

vulgaris Raf. op. cit. 48, *descr.* Northern Europe and America. *Vaccinium oxycoccus* Linn.

#**POLLOMIA** Raf. Med. Fl. 2:49. 1830, *nom.* in syn. sub *Glyciphylla* Raf. (*Lasierra* Torr.) ut subgen. *Oxycoca* Raf.=*Chiogenes* Salisb. (1817).

POLYCODIUM Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom., gen. vel subgen.* (*Vaccinium* sp.); op. cit. 4:189. 1819, *nom.*=*Vaccinium* Linn. subgen. *Polycodium* (Raf.) Sleumer (*Picrococcus* Nutt., 1843).

RHODODENDRON Linn.

**kamtskenskense* Raf. First Cat. Bot. Gard. Transylv. Univ. 23. 1829, *nom.*=*R. kamtschaticum* Pallas. Siberia.

maximum Linn.

var. *albiflorum* Raf. Aut. Bot. 86. 1840, *nom.* Alleghany Mountains=*R. maximum* Linn. forma *album* (Pursh) Fernald.

fulvum Raf. l.c., *descr.* Alleghany Mountains.

SHALLONIUM Raf. Am. Monthly Mag. Crit. Rev. 2:266. 1818, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*=*Gaultheria* Linn.

serrulatum Raf. l.c. *nom.* (*Gaultheria shallon* Pursh). Western North America.

STEMOTIS Raf. Sylva Tellur. 152. 1838, *descr.*=*Rhododendron* Linn.

alba Raf. op. cit. 153, *descr.* (*Rhododendron album* Ham.; Sweet, Brit. Fl. Gard. 5: t. 148. 1832; *Rhododendron arboreum* Sm. var. *album* Hook. Bot. Mag. 61: t. 3290. 1834). Nepal=*Rhododendron arboreum* Sm.

coccinea Raf. l.c. *descr.* (*Rhododendron arboreum* Sm. Exot. Bot. 1: t. 6. 1804; Lindl. Bot. Reg. 11: t. 890. 1825). Himalaya Mountains=*Rhododendron arboreum* Sm.

rosea Raf. l.c., *descr.* (*Rhododendron arboreum* Sm. var. *roseum* Lindl. Bot. Reg. 15: t. 1240. 1829). India=*Rhododendron arboreum* Sm.

VACCINIUM Linn.

**distichum* Raf. Med. Fl. 2:272. 1830, *nom.*; Herb. Raf. 54. 1833, *nom.* Oregon (Lewis & Clark).

**dumoeum* Raf. Med. Fl. l.c., *nom., sphalm.*=*Vaccinium dumosum* Andr.=*Gaylussacia dumosa* (Andr.) Torr. & Gray. Eastern North America.

**duonsum* Raf. op. cit. 50, *nom., sphalm.*=*praec.*

**glaucum* Raf. Atl. Jour. 1:148. 1832, *descr.* Florida.

**gaultherioides* Raf. Am. Monthly Mag. Crit. Rev. 1:335. 1816, *descr., sphalm.*=*V. gaultherioides* Bigelow=*V. uliginosum* Linn.

**sempervirens* Raf. Herb. Raf. 54. 1833, *nom.* Oregon (Lewis & Clark).

**vitisidea* Raf. Med. Fl. 2:272. 1840, *nom.*=*Vaccinium vitis-idaea* Linn. Europe, North America.

XOLISMA Raf. Am. Monthly Mag. Crit. Rev. 4:193. 1819, *nom. nov.* *Lyonia* Nutt.; Jour. Phys. Chim. Hist. Nat. 89: 259. 1819, *nom.* (*Lyonia* Nutt.)=*Lyonia* Nutt. (1818), non Ell. (1817), *nom. conserv.* (*Xolisma* Raf., 1819).

EPACRIDACEAE

WILSONIA Raf. Specch. Sci. 1:157. 1814, *descr.*, non R. Br. (1810)=? *Epacris* J. R. & G. Forst. (1776).
linearis Raf. l.c., *descr.* "Polinesia o Isole del mare Indiano." 27

DIAPENSACEAE

***ERITHRORHIZA** Raf. Med. Repos. II. 5:353. 1808, *nom., sphalm.*=*Erythrorhiza* Michx. (1803)=*Galax* Linn.

GALAX Linn.

**erythrorhiza* Raf. Aut. Bot. 99. 1840, *nom.* (*Galax aphylla* Linn.; *Erythrorhiza rotundifolia* Michx.; *Pyrola urceolata* Poir.) North Carolina=*Galax aphylla* Linn.

MYRSINACEAE

FIALARIS Raf. Sylva Tellur. 166. 1838, *descr.*=*Rapanea* Aubl. (1775).

umbellata Raf. l.c., *descr.* (*Myrsine urceolata* R. Br.). Australia=*Rapanea urceolata* (R. Br.) Mez.

GALIZIOLA Raf. Sylva Tellur. 167. 1838, *descr.* (*Ardisia* spp.)=*Ardisia* Sw. (1788), *nom. conserv.* (*Kathouthea* Adans., 1763; ? *Vedelia* Adans., 1763; *Isacorea* Aubl., 1775; *Bladhia* Thunb., 1781).

HEURLINIA Raf. Sylva Tellur. 166. 1838, *descr.*=*Rapanea* Aubl. (1775).

variabilis Raf. l.c., *nom.* (*Myrsine variabilis* R. Br.). Australia=*Rapanea variabilis* (R. Br.) Mez.

MILNEA Raf. Sylva Tellur. 167. 1838, *descr.*=? *Ardisia* Sw. (1788), *nom. conserv.*, vide supra.

PATTARA Adans. (1763)=*Embelia* Burm. f. (1768), *nom. conserv.* (*Ghesaembilla* Adans., 1763; *Pattara* Adans., 1763).
acuta Raf. Sylva Tellur. 11. 1838, *descr.* (*Basaal* Rheede, Hort. Malabar. 5:23. t. 12. 1685). Malabar, India=*Embelia basaal* (Roem. & Schult.) A. DC.

basal Raf. l.c., *descr.* (*Tsjeriam-cottam* Rheede, Hort. Malabar. 5:21. t. 11. 1685). Malabar, India=*Embelia tsjeriam-cottam* (Roem. & Schult.) A. DC.

PRIMULACEAE

ARETIA Hall.=*Androsace* Linn.

alba Raf. Fl. Ludovic. 34. 1817, *descr.* (*Aretia* Rob. Voy. Louis. 3:377. 1807). Louisiana.

#**BASIPHIA** Raf. Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.*, subgen. *Lysimachia* Linn.

†**BORISSA** Raf. Ann. Gén. Sci. Phys. 7:193. 1820, *descr.*; Steud. Nomencl. ed. 2, 1:217. 1840, *nom.* (*Lysimachia linum-stellatum* Linn.)=*Asterolinon Hoffm. & Link* (1820).

linum-stellatum Raf. ex Steud. Nomencl. ed. 2, 1:217. 1840 (*Lysimachia linum-stellatum* Linn.). Mediterranean region=*Asterolinon linum-stellatum* (Linn.) Duby.

DODECATHEON Linn.

angustifolium Raf. Am. Monthly Mag. Crit. Rev. 4:40. 1818, *descr.*; Spreng. Neue Entdeck. 1:145. 1820, *descr.*; Atl. Jour. 1:180. 1833, *nom.*; Herb. Raf. 28. 1833 sub *D. longifolium* Raf., *nom.* Indiana, Kentucky.

cordatum Raf. Atl. Jour. 1:179. 1833, *descr.*; Herb. Raf. 27. 1833, *descr.* [North America]. Cult.

crenatum Raf. op. cit. 180, 28, *descr.* Illinois.

cuneatum Raf. op. cit. 179, 28, *descr.* Alleghany Mountains of Maryland.

ellipticum Raf. op. cit. 179, 27, *descr.* Alleghany Mountains of Virginia.

flexuosum Raf. op. cit. 180, 28, *descr.* Missouri.

longifolium Raf. op. cit. 180, 28, *descr.* Kentucky.

obovatum Raf. op. cit. 179, 27, *descr.* Virginia.

obtusum Raf. op. cit. 180, 32, *descr.* Arkansas.

ovatum Raf. op. cit. 179, 27, *descr.* Appalachian and Unaka Mountains.

parviflorum Raf. op. cit. 180, 32, *descr.* Pennsylvania.

²⁷ It is suspected that this actually may have come from Australia, and that the description, as to the 4-merous flowers (corolla 8-fid), the 4-celled ovary, etc., was based on erroneous observations. The type is not extant, so that there is no way of checking this point.

- parvifolium* Raf. op. cit. 179, 27, *descr.* Cumberland Mountains.
- **rupestre* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
- serratum* Raf. Atl. Jour. 1:179. 1833, *descr.*; Herb. Raf. 27. 1833, *descr.* Illinois. (*D. frenchii* (Vasey) Rydb.?).
- triflorum* Raf. Atl. Jour. 1:180. 1833 et Herb. Raf. 27. 1833, *nom. alt. D. flexuosum* Raf. Missouri=*D. flexuosum* Raf.
- undatum* Raf. op. cit. 179, 28, *descr.* Alleghany Mountains.
- uniflorum* Raf. op. cit. 180, 28, *descr.* Alleghany Mountains.
- EVOTROCHIS** Raf. Fl. Tellur. 2:76. 1836 [1837], *descr.*=*Primula* Linn.
- involuta* Raf. l.c., *descr.* (*Primula verticillata* sensu Hook. Bot. Mag. 55: t. 2842. 1828, non Forsk.). Arabia=*Primula involuta* Sweet (1839), non Wall. 1828, *nom.*, 1844, *descr.* (*P. boveana* Decne., 1844).
- odorata* Raf. l.c., *descr.* (*Primula verticillata* Forsk.). Arabia.
- ***EXINIA** Raf. Aut. Bot. 185. 1840, sub *Meadia* Mill., *descr.*=*Dodecatheon* Linn.
- **pulchella* Raf. l.c., *descr.* (*Dodecatheon integrifolium* sensu Hook. Bot. Mag. 64: t. 3622. 1837, non Michx.). Rocky Mountains=*Dodecatheon pulchellum* (Raf.) Merr. Jour. Arnold Arb. 29:212. 1948. (*D. pauciflorum* Greene 1890).
- LYSIMACHIA** Linn.
- capitellata* Raf. Med. Repos. II. 5:354. 1808, *nom. nov.* *L. thyrsoiflora* Linn.; Jour. Bot. (Paris) 2:174. 1809, *nom.* (*L. thyrsoiflora* Linn.). Eastern North America.
- **glaucula* Raf. Western Minerva 41. 1821, *nom.*, iter Fox, Science II. 12:213. 1900. Kentucky.
- **mollis* Raf. Herb. Raf. 79. 1833, *nom.* Alabama or Florida.
- sessilifolia* Raf. Atl. Jour. 1:151. 1832, *descr.* Lake Erie or Lake Ontario.
- MEADIA** Mill.; Raf. Aut. Bot. 185. 1840, *nom.*, *nota*=*Dodecatheon* Linn.
- **cordata* Raf. l.c., *descr.* Siberia.
- **crenata* Raf. op. cit. 186, *descr.* (*Dodecatheon crenatum* Raf.). Illinois.
- **cuneata* Raf. op. cit. 185, *nom.* (*Dodecatheon cuneatum* Raf.). Alleghany Mountains.
- **dentata* Raf. op. cit. 186, *descr.* Oregon.
- **elliptica* Raf. op. cit. 185, *nom.* (*Dodecatheon ellipticum* Raf.). Alleghany Mountains, Ohio.
- **longifolia* Raf. l.c., *descr.* (*Dodecatheon longifolium* Raf.). Kentucky, Illinois, Missouri.
- var. *cuneifolia* Raf. op. cit. 186, *nom.*
- elliptica Raf. l.c., *nom.*
- **obovata* Raf. op. cit. 185, *nom.* (*Dodecatheon obovatum* Raf.). Virginia, Kentucky.
- var. *brevifolia* Raf. l.c., *nom.*
- **ovata* Raf. l.c., *nom.* (*Dodecatheon ovatum* Raf.). Appalachian and Unaka Mountains.
- **parvifolia* Raf. l.c., *nom.* (*Dodecatheon parvifolium* Raf.). Cumberland (Wasioto) Mountains.
- **pendula* Raf. op. cit. 186, *descr.* Siberia and Oregon.
- **polyanthes* Raf. l.c., *descr.* Siberia.
- **serrata* Raf. op. cit. 185, *nom.* (*Dodecatheon serratum* Raf.). Illinois. (*D. frenchii* (Vasey) Rydb.?).
- **triflora* Raf. op. cit. 186, *nom.* (*Dodecatheon triflorum* Raf.). Missouri.
- **undata* Raf. l.c., *nom.* (*Dodecatheon undatum* Raf.). Alleghany Mountains, Ohio.
- var. *cuneifolia* Raf. l.c., *nom.*
- oblongifolia Raf. l.c., *nom.*
- **uniflora* Raf. l.c., *nom.* (*Dodecatheon uniflorum* Raf.). Alleghany Mountains.
- PRIMULA** Linn.
- bicolor* Raf. Car. Nuov. Gen. Sp. Sicil. 78. t. 19 f. 3. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; *Chloris Aetn.* 10. 1815, *nom.* Sicily=*Primula acaulis* (Linn.) Hill.
- SAMOLUS** Linn.
- **acaulis* Raf. Herb. Raf. 52, *nom.*, 42, *descr.* 1833; Aut. Bot. 10. 1840, *nom.* Rocky Mountains.
- **calycularis* Raf. Herb. Raf. 42. 1833, *descr.* England, Europe=*S. valerandi* Linn.
- **floridanus* Raf. op. cit. 41, *descr.* Carolina to Florida=*S. floribundus* H.B.K.
- **maritimus* Raf. op. cit. 42, *descr.* Sea islands [eastern United States]=*S. floribundus* H.B.K.
- **multicaulis* Raf. op. cit. 43, *descr.*; Aut. Bot. 10. 1840, *nom.* Southeastern Europe and Anatolia; Crete=*S. valerandi* Linn.

- **paniculatus* Raf. Herb. Raf. 41. 1833, *descr.*; Aut. Bot. 10. 1840, *nom.* Louisiana to Kentucky; Florida to Texas.
- parviflorus* Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom. nov. S. valerandi* sensu Pursh; M'Murtrie Sketch. Louisv. 226. 1819, *nom.* Eastern North America; see House, Bull. N. Y. State Museum 254:558. 1924.
- **petiolatus* Raf. Herb. Raf. 41. 1833, *descr.* Canada, near Lake Erie and in Ohio=*S. floribundus* H.B.K.
- **pratensis* Raf. op. cit. 42, *descr.* Eastern United States=*S. floribundus* H.B.K.
- **rivularis* Raf. l.c., *descr.* Alleghany Mountains=*S. floribundus* H.B.K.
- STEIRONEMA** Raf. Ann. Gén. Sci. Phys. 7:193. 1820, *descr.*=*Lysimachia* Linn., sect. *Steironema* (Raf.) Klatt.
- **aquaticum* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- †*ciliatum* (Linn.) Raf. ex A. Gray, Proc. Am. Acad. II. 12:63. 1877 (*Lysimachia ciliata* Linn.). Eastern North America.
- †*heterophyllum* (Michx.) Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* (*Lysimachia heterophylla* Michx.). Eastern North America.
- hybridum* (Michx.) Raf. ex Jacks*. Ind. Kew. 2:982. 1895 (*Lysimachia hybrida* Michx.). Eastern North America.
- †*longifolium* Raf. ex A. Gray, Proc. Am. Acad. II. 12:63. 1877 (*Lysimachia longifolia* Pursh). Eastern North America=*Steironema quadriflorum* (Sims) Hitchc.
- †*revolutum* Raf. ex A. Gray, l.c. (*Lysimachia revoluta* Nutt.). Eastern North America=*Steironema quadriflorum* (Sims) Hitchc.
- †**TRIDYNIA** Raf. Ann. Gén. Sci. Phys. 7:192. 1820, *descr.*; Western Minerva 41. 1821, *nom.*, iter Fox, Science II. 12:213. 1900; Atl. Jour. 1:151. 1832, *nom.*, *nota*, ut gen. vel subgen.; Steud. Nomencl. ed. 2, 2:704. 1841=*Lysimachia* Linn.
- **glaucula* Raf. Ann. Gén. Sci. Phys. l.c., *descr.*; Western Minerva, l.c., *nom.*, iter Fox, Science, l.c. Kentucky=*Lysimachia glauca* Raf.
- TRIENTALIS** Linn.
- borealis* Raf. Med. Repos. II. 5:354. 1808, *nom. nov. T. europaea* Linn.; Jour. Bot. (Paris) 2:174. 1809, *nom.* =*T. europaea* Linn.

PLUMBAGINACEAE

- MOLUBDA** Raf. Sylva Tellur. 123. 1838, *descr.*=*Plumbago* Linn.
- scandens* Raf. l.c., *descr.* (*Plumbago scandens* Linn.). Tropical America.
- PLUMBAGO** Linn.
- **floridana* Raf. New Fl. N. Am. 4:14. 1836 [1838], *descr.* Florida=*Plumbago floridana* Nutt. (1822)=*P. scandens* Linn.
- STATICE** Linn.
- caroliniana* Walt. Southeastern United States=*Limonium carolinianum* (Walt.) Britton.
- var. *albiflora* Raf. Med. Fl. 2:94. 1830, *nom.*, Casket 1831:379. 1831, *nom.*; Sat. Eve. Post 10(540):[4]. 1831, *nom.*
- cespitosa* Raf. ll.cc., *nom.*
- longifolia* Raf. ll.cc., *nom.*
- pumila* Raf. ll.cc., *nom.*
- ramosissima* Raf. ll.cc., *nom.*

SAPOTACEAE

- BUMELIA** Swartz (1788), *nom. conserv.* (*Robertia* Scop., 1777).
- arachnoidea* Raf. New Fl. N. Am. 3:28. 1836 [1838], *descr.*; Sylva Tellur. 36. 1838, *nom.*; Aut. Bot. 74. 1840, *nom.* Arkansas, Texas=*Bumelia lanuginosa* (Michx.) Pers.
- denticulata* Raf. New Fl. N. Am. 3:29. 1836 [1838], *descr.*; Sylva Tellur. 36. 1838, *nom.*; Aut. Bot. 74. 1840, *nom.*, *nota*=*Streblina denticulata* Raf., fide Raf. op. cit. 75. Florida. Ex *descr.*=*Nyssa* sp. (Nyssaceae).
- rufa* Raf. New Fl. N. Am. 3:29. 1836 [1838], *descr.*, sub *Bumelia serrulata* Raf.; Aut. Bot. 74. 1840, *descr.* Florida=*Bumelia lanuginosa* (Michx.) Pers.

BURNELIA (*continued*).

- serrulata* Raf. Il.cc., *descr.*, *nom.* Mountains of Alabama.
 var. *sericea* Raf. New Fl. N. Am. op. cit. 30, *descr.*
Bumelia chrysophylloides sensu Raf. Fl. Ludovic.
 53. 1817, non Pers. (*Sideroxylon tenax* sensu Rob.
 Voy. Louis. 3:416. 1807); Aut. Bot. 74. 1840,
nom., *nota*. Louisiana. Alabama.
undulata Raf. op. cit. 28, *descr.*; Sylva Tellur. 36. 1838,
nom.; Aut. Bot. 74. 1840, *nom.* Southern Florida, Cuba.

CHRYSOPHYLLUM Linn.

- cainito* Linn. var. *rotundifolium* Raf. New Fl. N. Am. 3:27.
 1836 [1838], *descr.* Southern Florida.
ludovicianum Raf. Fl. Ludovic. 53. 1817, *descr.* (*Chrysophyllum glabrum* sensu Rob. Voy. Louis. 3:416. 1807);
 New Fl. N. Am. l.c., *descr.*, non Jacq., nec Juss. Louisiana,
 Texas=*Bumelia lanuginosa* (Michx.) Pers.
DACTIMALA Raf. Sylva Tellur. 153. 1838, *nom. alt.* *Guersentia*
 Raf.=*Chrysophyllum* Linn.
angustifolia Raf. ex Jacks*. Ind. Kew. 1:708. 1893 (*Chrysophyllum microcarpum* Sw.). Santo Domingo.
microcarpa Raf. ex Jacks*. l.c. (*Chrysophyllum microcarpum*
 Sw.). Santo Domingo.
olivaeformis Raf. ex Jacks*. l.c. (*Chrysophyllum oliviforme*
 Lam.). West Indies=*Chrysophyllum monopyrenum* Sw.
DECATELES Raf. Sylva Tellur. 35. 1838, *descr.*; Good Book
 48. 1840, *nom.*=*Bumelia* Sw. (1788), *nom. conserv.* (*Robertia*
 Scop., 1777).
latifolia Raf. op. cit. 36, *descr.* (*Sideroxylon decandrum*
 Linn.). Southern New Jersey=*Bumelia lycioides* (Linn.)
 Pers.
lycioides Raf. l.c., *descr.*; Aut. Bot. 76. 1840, *descr.* (*Sideroxylon lycioides* Linn.; *Bumelia lycioides* Willd.). Carolina
 to Florida=*Bumelia lycioides* (Linn.) Pers.
GUERSENTIA Raf. Sylva Tellur. 153. 1838, *descr.*=*Chrysophyllum*
 Linn.
angustifolia Raf. l.c., *nom.* (*Chrysophyllum angustifolium*
 Lam.). Santo Domingo.
microcarpa Raf. l.c., *nom.* (*Chrysophyllum microcarpum* Sw.).
 Santo Domingo=*Chrysophyllum argenteum* Jacq.
oliveformis Raf. l.c., *descr.* (*Chrysophyllum oliviforme* Linn.;
C. monopyrenum Sw.; Hook. Bot. Mag. 61: t. 3303. 1834).
 West Indies.

- SCLEROCLADUS** Raf. Sylva Tellur. 35. 1838, *descr.*=*Bumelia*
 Sw. (1788), *nom. conserv.* (*Robertia* Scop., 1777).
tenax Raf. l.c., *nom.* (*Sideroxylon tenax* Linn.; *Bumelia tenax*
 Willd.; *Chrysophyllum carolinense* Jacq.). Southeastern
 United States=*Bumelia tenax* (Linn.) Willd.
***SCLEROZUS** Raf. Aut. Bot. 73. 1840, *nom. nov.* *Sclerocladus*
 Raf.; Good Book 48. 1840, *nom.*=*Bumelia* Sw. (1788),
nom. conserv. (*Robertia* Scop., 1777).
***tenax** Raf. Aut. Bot. l.c., *descr.* [*Sclerocladus tenax* Raf.].
 Florida=*Bumelia tenax* (Linn.) Willd.
SPONDOGONA Raf. Sylva Tellur. 35. 1838, *descr.*=*Dipholis*
 A. DC. (1844).
nitida Raf. l.c., *nom.*, *nota* (*Bumelia pentagona* Sw.). West
 Indies=*Dipholis salicifolia* (Linn.) A. DC.=*Spondogona*
salicifolia (Linn.) House, Am. Midl. Nat. 7:131. 1921.
VERLANGIA Neck. (1790)=*Argania* Roem. & Schult. (1817),
nom. conserv. (*Verlangia* Neck., 1790).
argan Raf. Sylva Tellur. 34. 1838, *descr.* (*Elaeodendron argan*
 Retz.). Atlas Mountains, North Africa=*Argania sideroxylon*
 Roem. & Schult.
indica Raf. l.c., *descr.* (*Caromelli* [Carou-moelli] Rheede,
 Hort. Malabar. 5:77. t. 39. 1685). India=*Flacourtia indica*
 (Burm. f.) Merr. (*F. sepiaria* Roxb.) (Flacourtiaceae).
sicula Raf. l.c., *descr.* (*Rhamnus sicula* Linn.). Sicily, Libya
 =*Argania sideroxylon* Roem. & Schult.
XANTOLIS Raf. Sylva Tellur. 36. 1838, *descr.*=*Sideroxylon*
 Linn., sensu lat. (*Planchonella* Pierre, 1890).
tomentosa Raf. l.c., *descr.* (*Sideroxylon tomentosum* Roxb.
 Pl. Coromandel 1:28. t. 28. 1795). India=*Planchonella*
tomentosa (Roxb.) Pierre.

EBENACEAE

- *CHLOROXYLON** Raf. Med. Fl. 1:155. 1828, *nom.*, iter. Man.
 Med. Bot. 155. 1841, non Scop. (1777) (Type *Diospyros*
chloroxylon Roxb.)=*Diospyros* Linn.
***DIMIA** Raf. Med. Fl. 1:155. 1828, *nom. subnud.*, iter. Man.
 Med. Bot. 155. 1841 (Type *Diospyros digyna* Jacq.)=
Diospyros Linn.

DIOSYROS Linn.

- ciliata* Raf. New Fl. N. Am. 3:25. 1836 [1838], *descr.*
 Florida=*D. virginiana* Linn.
virginiana Linn.
 var. *concolor* Raf. Med. Fl. 1:155. 1828, *descr.*, iter. Man.
 Med. Bot. 155. 1841. Eastern United States.
macrocarpa Raf. Il.cc., *descr.* Southern United States.
microcarpa Raf. Il.cc., *descr.* (*D. pubescens* Pursh).
 Virginia.
***EBENUM** Raf. Med. Fl. 1:155. 1828, *descr.*, "subgen. or gen.,"
 iter. Man. Med. Bot. 155. 1840=*Diospyros* Linn.
***GONOPYROS** Raf. Med. Fl. 1:155. 1828, *descr.*, iter. Man.
 Med. Bot. 155. 1841=*Diospyros* Linn.
MABOLA Raf. Sylva Tellur. 11. 1838, *descr.*=*Diospyros* Linn.
edulis Raf. l.c., *descr.* (*Diospyros mabola* Roxb.; Lindl. Bot.
 Reg. 14: t. 1139. 1828). Philippines=*Diospyros discolor*
 Willd.
PERSINUM Raf. Sylva Tellur. 164. 1838, *descr.*=*Diospyros*
 Linn.
virginiana Raf. ex Jacks*. Ind. Kew. 2:474. 1894 (*Diospyros*
virginiana Linn.). Eastern North America.

STYRACEAE

- ADNARIA** Raf. Fl. Ludovic. 56. 1817, *descr.*; New Fl. N. Am.
 1:65. 1836, *nom.*, *nota*; op. cit. 4:95. 1836 [1838], *nom.*=
Styrax Linn.
odorata Raf. Fl. Ludovic. l.c., *descr.* (*Campanula* 2, Rob. Voy.
 Louis. 3:422. 1807); Herb. Raf. 55. 1833, *nom.* Louisiana
 =*Styrax americana* Lam.; see Camp. Castanea 6:82. 1941.
BENZOINA Raf. Sylva Tellur. 133. 1838, *descr.*=*Styrax* Linn.
vera Raf. l.c., *nom.* (*Styrax "benzoina* L. auct." *sphalm.*; *S.*
benzoin Dry.)=*Styrax benzoin* Dry. Malaysia.
STYRAX Linn.
**benzoina* Raf. Sylva Tellur. 133. 1838, *nom. sub Benzoina*
vera Raf.=*Styrax benzoin* Dry. Malaysia.

SYMPLOCACEAE**SYMPLOCOS** Jacq.

- *vera* Raf. Sylva Tellur. 163. 1838, *nom. nov.* *Symplocos*
octopetala Sw. Jamaica.

OLEACEAE

- APILIA** Raf. ex Jacks*. Ind. Kew. 1:161. 1893, *sphalm.*=
Aplilia Raf. (1838)=*Fraxinus* Linn.
laciniata Raf. ex Jacks*. l.c.=*Aplilia laciniata* Raf. Europe=
 ? *Fraxinus excelsior* Linn.
macrophylla Raf. ex Jacks*. l.c.=*Aplilia macrophylla* Raf.
 Europe=? *praec.*
pendula Raf. ex Jacks*. l.c.=*Aplilia pendula* Raf. North
 America=? *praec.*
APLILIA Raf. New Fl. N. Am. 3:93. 1836 [1838], *descr.*;
 Alsogr. Am. 31, *nom.* 39, *descr.*, 1838; Good Book 46. 1840,
nom.=*Fraxinus* Linn.
laciniata Raf. New Fl. N. Am. l.c., *nom.* (*Fraxinus simpli-*
cifolia Willd.); Alsogr. Am. 39. 1838, *nom. alt.* *Fraxinus*
laciniata Raf. (*Fraxinus simplicifolia* Willd.). Europe, Asia
 =? *Fraxinus excelsior* Linn.
macrophylla Raf. New Fl. l.c. (*Fraxinus simplicifolia* Willd.);
 Alsogr. Am. l.c. *nom. alt.* *Fraxinus macrophylla* "Thouin."
 [Hoffm.] Europe (cult.)=? *praec.*
**pendula* Raf. Alsogr. Am. 39. 1838, *nom. alt.* *Fraxinus*
pendula Raf. North America=? *praec.*
BORYA Willd. (1805) non Labill. (1804)=*Forestiera* Poir.
 (1810).
**cuneifolia* Raf. Herb. Raf. 58. 1833, *nom.* Illinois.
CARPOXIS Raf. New Fl. N. Am. 3:89. 1836 [1838], *descr.*;
 Sylva Tellur. 10. 1838, *nom.*, *nota*; Good Book 46. 1840,
nom.=*Forestiera* Poir. (1810).
inermis Raf. New Fl. N. Am. 3:92. 1836 [1838], *descr.*
 (*Borya acuminata* sensu Pursh). Carolina=*Forestiera acu-*
minata (Michx.) Poir. (*Adelia acuminata* Michx.).
nitida Raf. op. cit. 91, *nom. alt.* *Forestiera nitida* Raf. (*Borya*
nitida Willd.). North America=*Forestiera acuminata*
 (Michx.) Poir.

- prinoides* Raf. op. cit. 92, *nom. alt.* *Forestiera prinoides* Raf. (*Borya prinoides* Willd.). North America.
- retusa* Raf. l.c., *nom. alt.* *Forestiera retusa* Raf. (*Borya retusa* Willd.). North America.
- spinosa* Raf. l.c., *descr.* (*Adelia acuminata* Michx.; *Borya acuminata* Willd.; *Bigelovia acuminata* Sm.). Carolina, Georgia=*Forestiera acuminata* (Michx.) Poir. (*Adelia acuminata* Michx.).
- CARTREMA** Raf. Sylva Tellur. 184. 1838, *nom. nov.* *Pausia* Raf. Sylva Tellur. 9. 1838, non *Pausia* Raf. Flora Tellur. 4:105. 1836 [1838]=*Osmanthus* Lour. (1790) (*Amarolea* Small, 1933).
- americana* Raf. ex Jacks*. Ind. Kew. 1:445. 1893 (*Olea americana* Linn.). Southeastern United States=*Osmanthus americanus* (Linn.) A. Gray (*Amarolea americana* Small).
- **odorata* Raf. Aut. Bot. 16. 1840, *nom.* (*Olea americana* Linn.) [*Pausia americana* Raf.; *Pausia odorata* Raf.]. Southeastern United States=*Osmanthus americanus* (Linn.) A. Gray (*Amarolea americana* Small).
- CHIONANTHUS** Linn.
- angustifolius* Raf. New Fl. N. Am. 3:88. 1836 [1838], *descr.* (*Chionanthus virginicus* sensu Ell.?; *C. virginicus* Linn. ? var. *angustifolius* Ait.). Carolina, Florida=*C. virginicus* Linn.
- var. *cylindricus* Raf. l.c., *descr.* [*Chionanthus virginicus* Linn. var. *cylindricus* Ell.].
- †*heterophyllus* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. 3:87. 1836 [1838], *descr.* (*Chionanthus virginicus* sensu Michx.); op. cit. 4:107. 1836 [1838], *nom.*, *nota.* Appalachian and Wasioto Mountains=*Chionanthus virginicus* Linn.
- longifolius* Raf. op. cit. 3:88. 1836 [1838], *descr.* Louisiana, Texas=*Chionanthus virginicus* Linn.
- **maritimus* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. 3:86. 1836 [1838], *descr.* (*Chionanthus virginicus* Linn. var. *maritimus* Pursh); op. cit. 4:107. 1836 [1838], *nom.*, *nota.* New Jersey to Florida=*C. maritimus* Sweet (1830) = *C. virginicus* Linn.
- var. *rhombifolius* Raf. op. cit. 3:87, *descr.* Delaware.
- †*montanus* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N. Am. 3:87. 1836 [1838], *descr.* (*Chionanthus virginicus* Linn. var. *montanus* Pursh). Alleghany and Appalachian Mountains, Virginia to Georgia=*Chionanthus virginicus* Linn.
- obovatus* Raf. New Fl. N. Am. l.c., *descr.* (*Chionanthus domingensis* Lam.?). Alabama; "probably also found in the Antilles and Florida"; quoad "Alabama" prob.=*C. virginicus* Linn.
- ENAIMON** Raf. Sylva Tellur. 9. 1838, *descr.*=*Olea* Linn.
- undulata* Raf. l.c., *descr.* (*Olea undulata* Jacq.; Lodd. Bot. Cab. 4: t. 379. 1819; Hook. Bot. Mag. 58: t. 3089. 1831; *Olea laurifolia* Lam.). South Africa=*Olea laurifolia* Lam.
- FAULIA** Raf. Fl. Tellur. 2:84. 1836 [1837], *descr.*=*Ligustrum* Linn.
- odorata* Raf. l.c., *descr.* (*Ligustrum spicatum* Ham. var. *nepalense* Wall.). Nepal=*Ligustrum indicum* (Lour.) Merr. Proc. Am. Philos. Soc. 24(2):307. 1935 (*L. nepalense* D. Don).
- verrucosa* Raf. Fl. Tellur. l.c., *descr.* (*Ligustrum nepalense* Wall., var. *glabrum* Hook. Bot. Mag. 56: t. 2921. 1829). Nepal=*Ligustrum lucidum* Ait.
- FORESTIERA** Poir.
- cuneifolia* Raf. New Fl. N. Am. 3:91. 1836 [1838], *descr.* Indiana.
- disticha* Raf. op. cit. 90, *descr.* (*Borya distichophylla* Nutt.). Eastern Tennessee=*Buckleya distichophylla* (Nutt.) Torr.
- glauca* Raf. l.c., *nom. alt.* *F. verrucosa* Raf.; Aut. Bot. 75. 1840, *descr.* Alabama.
- heterophylla* Raf. New Fl. N. Am. 3:90. 1836 [1838], *nom. alt.* *F. disticha* Raf.=*Buckleya distichophylla* (Nutt.) Torr.
- nitida* Raf. op. cit. 91, *descr.* (*Borya nitida* Willd.). North America.
- prinoides* Raf. op. cit. 92, *descr.* (*Borya prinoides* Willd.). North America.
- retusa* Raf. l.c., *descr.* (*Borya retusa* Willd.). North America.
- verrucosa* Raf. op. cit. 90, *descr.* Florida.
- FRAXINUS** Linn.
- canaliculata* Raf. Alsogr. Am. 35. 1838, *descr.* [North America].
- cordata* Raf. op. cit. 34, *descr.* Florida.
- **discolor* Raf. Fl. Ludovic. 37. 1817, *descr.* (*Frêne-gras* Rob. Voy. Louis. 3:382. 1807); Herb. Raf. 55. 1833, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana=? *F. pennsylvanica* Marsh.
- glauca* Raf. Alsogr. Am. 33. 1838, *descr.* (*F. americana* Linn.; *F. novae-angliae* Mill.). Eastern United States.
- grandifolia* Raf. op. cit. 38, *descr.* Louisiana.
- ladera* Raf. Fl. Ludovic. 38. 1817, *descr.* (*Frêne* Rob. Voy. Louis. 3:383. 1807); Herb. Raf. 55. 1833, *nom.*; Alsogr. Am. 38. 1838, *descr.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana.
- **laciniata* Raf. Alsogr. Am. 39. 1838, *descr.* Europe.
- lanceifolia* Raf. op. cit. 35, *descr.* Alleghany Mountains.
- †*mannifera* Raf. op. cit. 41, *descr.*; hort. ex Steud. Nomencl. ed. 2, 1:647. 1841. Southern Italy.
- media* Raf. op. cit. 36, *descr.* (*F. subpubescens* Pers.). North America.
- mollis* Raf. op. cit. 34, *descr.* Alabama.
- multifolia* Raf. op. cit. 37, *descr.* [Eastern United States].
- **obliqua* Raf. op. cit. 38, *descr.* Arkansas.
- palustris* Raf. op. cit. 35, *descr.* (*F. platycarpa* sensu Ell.). South Carolina.
- **pendula* Raf. op. cit. 39, *descr.* [North America?].
- pleurodes* Raf. op. cit. 35, *descr.* (*F. platycarpa* Michx.). North America=*F. caroliniana* Mill.; see Fernald & Schubert, *Rhodora* 50:188. 1948.
- porosa* Raf. op. cit. 34, *descr.* Delaware and Susquehanna Rivers.
- **quadrangularis* Raf. Casket 1828:428. fig. 18. 1828, *descr.*; Am. Flor. fig. 29. 1832, *nom.*, *sphalm.*=*F. quadrangulata* Michx. North America.
- repanda* Raf. Alsogr. Am. 37. 1838, *descr.* [Eastern United States].
- reticulata* Raf. op. cit. 34, *descr.* Virginia.
- retusa* Raf. l.c., *descr.* New Jersey.
- **riparia* Raf. op. cit. 35, *nom. alt.* *F. porosa* Raf.=*F. porosa* Raf.
- teres* Raf. op. cit. 36, *descr.* Alleghany Mountains.
- undulata* Raf. Fl. Ludovic. 38. 1817, *descr.* (*Frêne 2*, Rob. Voy. Louis. 3:382. 1807); First Cat. Bot. Gard. Transylv. Univ. 12. 1824; Alsogr. Am. 37. 1838, *descr.*, *nom.*; New Fl. N. Am. 3:95. 1836 [1838], *nom.* Louisiana, Kentucky.
- var. *latifolia* Raf. Fl. Ludovic. 38. 1817, *nom.*
- **virens* Raf. Alsogr. Am. 39. 1838, *descr.*, in obs. sub. *Fraxinus obliqua* Raf. [Eastern United States].
- GEISARINA** Raf. Alsogr. Am. 5. 1838, *descr.*; Good Book 48. 1840, *nom.*=*Forestiera* Poir. (1810).
- verrucosa* Raf. op. cit. 6, *descr.* Arkansas and Missouri. Ex *descr.*=*Forestiera pubescens* Nutt.
- #**GYMNOGONUS** Raf. Casket 1828:438. 1828, *nom.*, *sect.* *Fraxinus* Linn.; Sat. Eve. Post 7(375):[4], 1828, *nom.*=*Fraxinus* Linn.
- LEPTALIX** Raf. New Fl. N. Am. 3:93. 1836 [1838], *descr.*; Alsogr. Am. 31. 1838, *descr.*; Sylva Tellur. 10. 1838, *nom.* in obs.; Good Book 46, 49. 1840, *nom.*=*Fraxinus* Linn.
- acuminata* Raf. Alsogr. Am. 33. 1838, *descr.*, *nom. alt.* *Fraxinus acuminata* Lam. North America.
- alba* Raf. op. cit. 32, *descr.*, *nom. alt.* *Fraxinus alba* Marsh. North America=*Fraxinus pennsylvanica* Marsh.
- atrovirens* Raf. op. cit. 37, *descr.*, *nom. alt.* *Fraxinus atrovirens* Desf. North America=*Fraxinus excelsior* Linn.
- canaliculata* Raf. op. cit. 35, *descr.*, *nom. alt.* *Fraxinus canaliculata* Raf. North America.
- caroliniana* Raf. op. cit. 36, *descr.*, *nom. alt.* *Fraxinus caroliniana* Mill. North America.
- cinerea* Raf. op. cit. 32, *descr.*, *nom. alt.* *Fraxinus cinerea* Bosc. North America=*Fraxinus pennsylvanica* Marsh.
- cordata* Raf. op. cit. 34, *descr.*, *nom. alt.* *Fraxinus cordata* Raf. Florida.
- elliptica* Raf. op. cit. 32, *descr.*, *nom. alt.* *Fraxinus elliptica* Bosc. North America=*Fraxinus pennsylvanica* Marsh.
- epiptera* Raf. op. cit. 33, *descr.*, *nom. alt.* *Fraxinus epiptera* Michx. Carolina=*Fraxinus pennsylvanica* Marsh.
- expansa* Raf. l.c., *descr.*, *nom. alt.* *Fraxinus expansa* Willd. North America.
- fusca* Raf. l.c., *descr.*, *nom. alt.* *Fraxinus fusca* Bosc. North America=*Fraxinus pennsylvanica* Marsh.
- glauca* Raf. l.c., *descr.*, *nom. alt.* *Fraxinus americana* Linn. North America.
- grandifolia* Raf. op. cit. 38, *descr.* (*Fraxinus discolor* sensu Raf. Fl. Ludovic. 37. 1817, non Muhl.). Louisiana.

LEPTALIX (continued).

- juglandifolia* Raf. op. cit. 36, *descr.*, *nom. alt.* *Fraxinus juglandifolia* Lam. North America.
- lacera* Raf. op. cit. 38, *descr.*, *nom. alt.* *Fraxinus lacera* Raf. Louisiana.
- lancifolia* Raf. op. cit. 35, *descr.*, *nom. alt.* *Fraxinus lancifolia* Raf. Alleghany Mountains.
- longifolia* Raf. op. cit. 32, *descr.*, *nom. alt.* *Fraxinus longifolia* Bosc. North America=*Fraxinus pennsylvanica* Marsh.
- media* Raf. op. cit. 36, *descr.*, *nom. alt.* *Fraxinus media* Raf. (*F. subpubescens* Pers.). North America.
- mixta* Raf. op. cit. 32, *descr.*, *nom. alt.* *Fraxinus mixta* Bosc. North America=*Fraxinus rotundifolia* Michx.
- mollis* Raf. op. cit. 34, *descr.*, *nom. alt.* *Fraxinus mollis* Raf. Alabama.
- multifolia* Raf. op. cit. 37, *descr.*, *nom. alt.* *Fraxinus multifolia* Raf. North America.
- nana* Raf. op. cit. 33, *descr.*, *nom. alt.* *Fraxinus nana* Pers. North America=*Fraxinus excelsior* Linn.
- nigra* Raf. l.c., *descr.*, *nom. alt.* *Fraxinus nigra* Bosc. North America=*Fraxinus pennsylvanica* Marsh.
- obliqua* Raf. op. cit. 38, *descr.*, *nom. alt.* *Fraxinus obliqua* Raf. Arkansas.
- ovata* Raf. op. cit. 32, *descr.*, *nom. alt.* *Fraxinus ovata* Bosc. North America=*Fraxinus pennsylvanica* Marsh.
- pallida* Raf. op. cit. 33, *descr.*, *nom. alt.* *Fraxinus pallida* Bosc. North America=*Fraxinus caroliniana* Mill.
- palustris* Raf. op. cit. 35, *descr.*, *nom. alt.* *Fraxinus palustris* Raf. (*Fraxinus platycarpa* sensu Ell.). Carolina
- pannosa* Raf. op. cit. 34, *descr.*, *nom. alt.* *Fraxinus pannosa* Vent. North America.
- platycarpa* Raf. op. cit. 35, *descr.* (sphalm. "platocarpa") *nom. alt.* *Fraxinus platycarpa* Michx. North America=*Fraxinus caroliniana* Mill.
- pleurodes* Raf. l.c., *descr.*, *nom. alt.* *Fraxinus pleurodes* Raf. (*Fraxinus platycarpa* sensu Willd., Pursh). North America.
- porosa* Raf. op. cit. 34, *descr.*, *nom. alt.* *Fraxinus porosa* Raf. Delaware and Susquehanna Rivers.
- pubescens* Raf. op. cit. 36, *descr.* (*Fraxinus pubescens* Lam.). North America.
- pulverulenta* Raf. op. cit. 32, *descr.* (*Fraxinus pulverulenta* Bosc). North America.
- quadrangulata* Raf. op. cit. 37, *descr.* (*Fraxinus quadrangulata* Michx.). North America.
- repanda* Raf. op. cit. 37, *descr.*, *nom. alt.* *Fraxinus repanda* Raf. North America.
- reticulata* Raf. op. cit. 34, *descr.*, *nom. alt.* *Fraxinus reticulata* Raf. Virginia.
- retusa* Raf. l.c., *descr.*, *nom. alt.* *Fraxinus retusa* Raf. New Jersey.
- richardi* Raf. op. cit. 32, *descr.* (*Fraxinus richardi* Bosc). North America=*Fraxinus pennsylvanica* Marsh.
- rubicunda* Raf. l.c., *descr.* (*Fraxinus rubicunda* Bosc). North America=*praec.*
- rufa* Raf. op. cit. 33, *descr.* (*Fraxinus rufa* Bosc). North America=*praec.*
- teres* Raf. op. cit. 36, *descr.* *nom. alt.* *Fraxinus teres* Raf. Alleghany Mountains.
- undulata* Raf. op. cit. 37, *descr.* (*Fraxinus undulata* Raf.). Louisiana.
- viridis* Raf. op. cit. 32, *descr.* (*Fraxinus viridis* Bosc). North America=*Fraxinus americana* Linn. var. *juglandifolia* (Lam.) D. J. Browne.
- ***LILACA** Raf. Med. Fl. 2:238. 1830, *nom.*=Lilac Adans. (1763)=*Syringa* Linn.
- **vulgaris* Raf. l.c., *nom.*=*Syringa vulgaris* Linn. South-eastern Europe.
- MANNAPHORUS** Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom. nov.* *Ornus* Neck.=*Fraxinus* Linn.
- #**MANNIFLUA** Raf. Casket 1828:428. 1828, *nom.*, sect. *Fraxinus* Linn.; Sat. Eve. Post 7(375):[4]. 1828, *nom.*=*praec.*
- NESTEGIS** Raf. Sylva Tellur. 10. 1838, *descr.*=*Olea* Linn. elliptica Raf. l.c., *descr.* (*Olea [apetala]* Vahl). New Zealand.
- ***NOTELEA** Raf. Sylva Tellur. 10. 1838, *descr.*=*Notelaea* Vent. (1803).
- NUDILUS** Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 20. 1833, *descr.*; New Fl. N. Am. 1:62. 1836, *nom.*, *nota*; op. cit. 3:90. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=*Forestiera* Poir. (1810).

paradoxus Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 20. 1833, *descr.*; New Fl. N. Am. 3:92. 1836 [1838], *descr.* Tennessee to Texas.

OLEA Linn.

- angustifolia* Raf. Sylva Tellur. 9. 1838, *descr.* Southern Europe. Ex *descr.*=*Olea europaea* Linn.
- bifera* Raf. op. cit. 8, *descr.* Southern Italy. Ex *descr.*=*Olea europaea* Linn.
- brevifolia* Raf. op. cit. 9, *descr.* Southern Europe. Ex *descr.*=*Olea europaea* Linn.
- cayana* Raf. l.c., *descr.* Southern Europe. Ex *descr.*=*Olea europaea* Linn.
- europaea* Linn. var. *semperflorens* Raf. op. cit. 8, *descr.* (*Olea cajetana* Petagni). Italy=*Olea europaea* Linn.
- verrucosa* Raf. l.c., *descr.* Southern Europe. Ex *descr.*=*Olea europaea* Linn.
- ORNANTHES** Raf. New Fl. N. Am. 3:93. 1836 [1838], *descr.*; Alsogr. Am. 39. 1838, *descr.*; Sylva Tellur. 10. 1838, *nom. nov.* *Ornus* Pers.; Good Book 46, 49. 1840, *nom.*=*Fraxinus* Linn.
- americana* Raf. New Fl. N. Am. 3:93. 1836 [1838], *nom.* [*Fraxinus americana* Linn.]. Eastern North America.
- florida* Raf. Alsogr. Am. 40. 1838, *descr.* (*Fraxinus ornus* sensu Sm.). Greece, Germany.
- lutea* Raf. l.c., *descr.* (*Fraxinus americana* auctt.). Alleghany Mountains.
- mannifera* Raf. New Fl. N. Am. 3:93. 1836 [1838], *nom.* [*Fraxinus ornus* Linn. ?]. Mediterranean region ?=*Fraxinus ornus* Linn.
- parviflora* Raf. Alsogr. Am. 40. 1838, *descr.* Apennine Mountains, Italy.
- rotundifolia* Raf. l.c., *descr.* (*Fraxinus rotundifolia* Mill.); New Fl. N. Am. 3:93. 1836 [1838], *nom.* Europe.
- #**ORNANTHUS** Raf. Casket 1828:428. 1828, *nom.*, sect. *Fraxinus* Linn.; Sat. Eve. Post 7(375):[4]. 1828, *nom.*=*praec.*
- PAUSIA** Raf. Sylva Tellur. 9. 1838, *descr.*, non *Pausia* Raf. Fl. Tellur. 4:105. 1836 [1838]=*Cartrema* Raf. (1838)=*Osmanthus* Lour. (1790) (*Amarolea* Small (1933)).
- americana* Raf. l.c., *nom.*, *nota* (*Olea americana* Linn.)=*Osmanthus americanus* (Linn.) A. Gray (*Amarolea americana* Small, 1933).
- odorata* Raf. l.c., *nom. alt.* *Pausia americana* Raf.=*praec.*
- #**PLATONEUS** Raf. Alsogr. Am. 35. 1838, *nom.*, subgen. *Fraxinus* Linn. (Type *Fraxinus porosa* Raf.).
- POGENDA** Raf. Sylva Tellur. 10. 1838, *descr.*=*Olea* Linn.
- cernua* Raf. l.c., *descr.* (*Olea cernua* Vahl). Madagascar=*Olea obtusifolia* Lam.
- POSTUERA** Raf. Sylva Tellur. 10. 1838, *descr.*=*Notelaea* Vent. (1803).
- longifolia* Raf. l.c., *descr.* (*Notelaea longifolia* Vent.). Australia.
- SAMARPSES** Raf. New Fl. N. Am. 3:93. 1836 [1838], *descr.*; Alsogr. Am. 39. 1838, *descr.*; Sylva Tellur. 10. 1838, *nom.*; Good Book 46. 1840, *nom.*=*Fraxinus* Linn.
- triptera* Raf. New Fl. et Alsogr. Am. 11.c.c., *descr.* (*Fraxinus triptera* Nutt.). Carolina=*Fraxinus caroliniana* Mill.
- TETRAPILUS** Lour.=*Olea* Linn.
- axillaris* Raf. Sylva Tellur. 138. 1838, *descr.* [*Tetrapilus brachiatus* Lour.]. Indo-China (Annam)=*Olea brachiata* (Lour.) Merr.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):307. 1935.
- ***THUINIA** Raf. Sylva Tellur. 137. 1838, *nom.* sub *Linociera* Sw.=*Thouinia* Linn. f. (1781)=*Linociera* Sw. (1791), *nom. conserv.* (*Mayepea* Aubl., 1775; *Thouinia* Linn. f., 1781; *Freyeria* Scop., 1777; *Ceranthus* Schreb., 1789).
- **ligustrina* Raf. l.c., *nom.*=*Thouinia ligustrina* Sw.=*Linociera ligustrina* Sw. West Indies.

SALVADORACEAE

- DOBERA** "Rafin. Fl. Tellur. III. 15. (1836)" ex Ind. Kew. 1: 783. 1893 est *Dobera* Juss. (1789).
- ITUTERION** Raf. Sylva Tellur. 86. 1838, *descr.*=*Salvadora* Linn.
- arborea* Raf. l.c., *descr.* (*Cissus arborea* Forsk.). Arabia=*Salvadora persica* Linn.

LOGANIACEAE**POLYPREMUM** Linn.

- **laxum* Raf. Aut. Bot. 17, 1840, *descr.* Arkansas, Texas=*P. procumbens* Linn.

- **squarrosus* Raf. l.c., *descr.*, *nom. nov.*. *P. procumbens* Linn. Carolina, Florida.
SEMNOS Raf. Sylva Tellur. 161. 1838, *descr.*=*Chilianthus* Burch. (1822).
paniculata Raf. l.c., *nom.* (*Callicarpa paniculata* Lam.). South Africa=*Chilianthus arboreus* (Linn. f.) A. DC.
SPIGELIA Linn.
marilandica Linn.; Raf. Med. Fl. 2:89. 1830. Eastern North America.
 var. *albiflora* Raf. op. cit. 90, *nom.*; Casket 1831:573. 1831, *nom.*; Sat. Eve. Post 10(541):[4]. 1831, *nom.*
angustifolia Raf. ll.cc., *descr.*
distachya Raf. ll.cc., *nom.*
pallida Raf. ll.cc., *descr.*
parviflora Raf. ll.cc., *nom.*
pubera Raf. ll.cc., *descr.*

GENTIANACEAE

- ALOITIS** Raf. Fl. Tellur. 3:21. 1836 [1837], *descr.*=*Gentiana* Linn. (*Gentianella* Moench, 1794).
anceps Raf. op. cit. 22, *descr.* (*Gentiana amarelloides* Michx.). Kentucky=*Gentiana quinquefolia* Linn. (*Gentianella quinquefolia* Small.).
parviflora Raf. op. cit. 21, *descr.* (*Gentiana amarella* sensu Ell.). Kentucky, Tennessee, Carolina=*Gentiana quinquefolia* Linn. (*Gentianella quinquefolia* Small.).
quinqueflora Raf. op. cit. 22, *descr.* (*Gentiana quinqueflora* Hill.; Hook. Bot. Mag. 63: t. 3496. 1836). North America=*Gentiana quinquefolia* Linn. (*Gentianella quinquefolia* Small.).
AMARELLA Gilib. (1791); Raf. Fl. Tellur. 3:20. 1836 [1837], *descr.* (*Hippion* Schmidt, 1793)=*Gentiana* Linn.
acuta Raf. op. cit. 21, *descr.* (*Gentiana acuta* Michx.). Canada to Carolina=*Gentiana amarella* Linn.
brevicaulis Raf. l.c., *descr.* Oregon.
gracilis Raf. l.c., *descr.* Siberia.
rugosa Raf. l.c., *descr.* Oregon.
vulgaris Raf. op. cit. 20, *descr.* (*Gentiana amarella* Linn.). Europe.
 var. *brevifolia* Raf. l.c., *descr.*
fastigiata Raf. op. cit. 21, *descr.*
ramosa Raf. op. cit. 20, *descr.*
simplex Raf. l.c., *descr.*
ANTHOPOGON Neck.; Raf. Fl. Tellur. 3:25. 1836 [1837], *descr.*²⁸ (*Eublephis* Raf.; *Crossopetalon* Beck), non Nutt. (1818)=*Gentiana* Linn.
†*albescens* Raf. New Fl. N. Am. 4:91. 1836 [1838], *descr.* Louisiana.
barbatum Raf. ex Jacks*. Ind. Kew. 1:149. 1893 (*Gentiana barbata* Froel.). Northern regions.
†*brevifolium* Raf. New Fl. l.c., *descr.* Alleghany Mountains of Pennsylvania.
ciliatum Raf. ex Jacks*. l.c. (*Gentiana ciliata* Linn.). Europe.
crinitum Raf. New Fl. l.c., *descr.* [*Gentiana crinita* Froel.]. sub *A. brevifolium* Raf. Eastern North America=*Gentiana crinita* Froel.
detonsum Raf. ex Jacks*. l.c. (*Gentiana detonsa* Rottb.). Northern regions.
†*incarnatum* Raf. New Fl. N. Am. 4:90. 1836 [1838], *descr.* (*Gentiana purpurea* sensu Muhl.). Alleghany Mountains of Pennsylvania.
virgatum Raf. Fl. Tellur. 3:25. 1836 [1837], *descr.* Canada and the Alleghany Mountains.
BARTONIA Muhl. ex Willd. (1801); Raf. Am. Monthly Mag. Crit. Rev. 3:100. 1818, *nom.*, *nota* (*Centaurella* Michx. 1803, non Delarb. 1800); Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.*, *nota* (*Centaurella* Michx. 1803; *Centaureium* Pers. 1805; *Andrewsia* Spreng. 1817), *nom. conserv.* (Agina Neck, 1790).
pubescens Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
uniflora Raf. ll.cc., *nom.* Central Atlantic United States.
verna (Michx.) Raf. ex Barton, Fl. Virg. 51. 1812 (*Centaurella verna* Michx.); Muhl. Cat. 16. 1813, *nom.*; Muhl. ex A. Gray in Chapm. Fl. S. U. St. 357. 1860; Pennell, Barton 9:28. 1926. Eastern North America.
BILAMISTA Raf. New Fl. N. Am. 4:92. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=*Gentiana* Linn.
grandiflora Raf. op. cit. 93, *descr.* (*Gentiana grandiflora* herb. Collins); Aut. Bot. 55. 1840, *nom.*, *nota*. Louisiana, Arkansas, Texas.
CALIXNOS Raf. Fl. Tellur. 4:82. 1836 [1838], *descr.*=*Crawfurdia* Wall. (1826).
trinervius Raf. l.c., *descr.* (*Convolvulus trinervis* Thunb.). Japan=*Crawfurdia japonica* Sieb. & Zucc. (*C. trinervis* Makino 1902, non D. Dietr. 1840).
CHIOPHILA Raf. Fl. Tellur. 3:23. 1836 [1837], *descr.*=*Gentiana* Linn.
nivalis Raf. l.c., *nom.* [*Gentiana nivalis* Linn.]. Boreal and Arctic regions.
***CHIRONEA** Raf. Med. Repos. II. 5:359. 1808, *nom.*, *sphalm.*; seq.
CHIRONIA Linn.
amoena Raf. Med. Repos. II. 5:359. 1808, *descr.* (*Chironea*); Jour. Bot. (Paris) 1:224. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:174. 1818, *nom.*, *nota* (*amaena*) (*Sabatia stellaris* Pursh); Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* (*Sabatia stellaris* Pursh). New Jersey, Delaware, Maryland=*Sabatia stellaris* Pursh; see Fernald, Rhodora 43:629. 1941.
***CHIRVNIA** Raf. Fl. Tellur. 3:23. 1836 [1837], *nom.* sub *Gonipa* Raf., *sphalm.*=*praeac.*
***CHLORITA** Raf. Fl. Tellur. 1:84. 1836 [1837], *nom. nov.* *Chlora* Adans. (1763).
***CHLORYTA** Raf. Princ. Somiol. 26, 29. 1814, *nom. nov.* *Chlora* Adans. (1763).
CHONDROPSIS Raf. Fl. Tellur. 3:29. 1836 [1837], *descr.*=*Exacum* Linn.
trinervis Raf. l.c., *descr.* (*Chironia trinervia* Linn.). Ceylon=*Exacum trinerve* (Linn.) Druce (*E. zeylanicum* Roxb.).
CICENDIA Adans.; Raf. Fl. Tellur. 3:26. 1836 [1837], *descr.*=*Gentiana* Linn.
campestris Raf. ex Jacks*. Ind. Kew. 1:533. 1893 (*Gentiana campestris* Linn.). Europe.
glacialis Raf. ex Jacks*. l.c. (*Gentiana glacialis* Thom.). Europe=G. *tenella* Rottb.
tenella Raf. ex Jacks*. l.c. (*Gentiana tenella* Rottb.). Boreal and Arctic regions.
CIMINALIS Raf. Fl. Tellur. 3:19. 1836 [1837], *descr.*, non Adans. (1763)=*Leiphaimos* Cham. & Schlecht. (1831).
alpina Raf. l.c., *nom.* (*Gentiana aphylla* Jacq., var.). Tropical America=L. *aphylla* (Jacq.) Gilg.
angustifolia Raf. l.c., *nom.* (*Gentiana aphylla* Jacq., var.). Tropical America=L. *aphylla* (Jacq.) Gilg.
grandiflora Raf. l.c., *nom.* (*Gentiana aphylla* Jacq.). Tropical America=L. *aphylla* (Jacq.) Gilg (*Voyria uniflora* Lam., *V. aphylla* Pers.).
CUTLERA Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.*, *nota* (*Gentiana catesbaei* Walt.); Fl. Tellur. 3:22. 1836 [1837], *nom.*, ut subgen. *Xolemia* Raf.=*Gentiana* Linn.
CUTTERA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 28:170. 1809, *nom.*=*Gentiana* Linn.
catesbei Raf. ex Jacks*. Ind. Kew. 2:674. 1893 (*Gentiana catesbaei* Walt.). Eastern North America=G. *saponaria* Linn.
ochroleuca Raf. Med. Repos. et. Jour. Bot. (Paris), ll.cc., *nom.* (*Gentiana ochroleuca* Sims); A. Gray, Am. Jour. Sci. 40:227. 1841, *nom.*, Eastern North America.
saponaria Raf. ll.cc., *nom.* (*Gentiana saponaria* Linn.); A. Gray, l.c., *nom.* Eastern North America.
DASISTEPHA Raf. Fl. Tellur. 3:19. 1836 [1838], *descr.*=*Gentiana* Linn.
asclepiadea Raf. l.c., *nom.* (*Gentiana asclepiadea* Linn.). Europe.
cespitosa Raf. l.c., *nom.*; op. cit. 28, *descr.* (*Gentiana caespitosa* Grah.; *G. glauca* Pallas). Siberia to Western North America.
DENCKEA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*=*Gentiana* Linn.
crinita Raf. ll.cc., *nom.* (*Gentiana crinita* Froel.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* North America.
DICARDIOTIS Raf. Fl. Tellur. 3:31. 1836 [1837], *nom. provis.* (*Gentiana auriculata* Pallas)=*Gentiana* Linn.

²⁸ Among the binomials listed below, *A. albescens*, *brevifolium*, and *incarnatum* are listed in Index Kewensis 1:149-150. 1893, by error, under *Anthopogon* Nutt. (1818), a genus of the Gramineae=Gymnopogon Beauv.

- DIPLOMA** Raf. Fl. Tellur. 3:19. 1836 [1837], *descr.*=*Gentiana* Linn.
altaica Raf. l.c., *nom.* (*Gentiana altaica* Laxm.). Siberia.
angustifolia Raf. l.c., *nom. sphalm.* "*ungustifolia*" (*Gentiana angustifolia* Michx.). North America.
hudsonica Raf. op. cit. 27, *descr.* (*Gentiana pneumonanthe* sensu Michx.). Canada=*Gentiana linearis* Froel.
pyrenaica Raf. op. cit. 19, *nom.* (*Gentiana pyrenaica* Linn.). Europe, Asia Minor.
tenuifolia Raf. op. cit. 27, *descr.* Florida=*Dasystephania tenuifolia* Pennell=*Gentiana tenuifolia* Fernald, 1939, non Petrie, 1913=*Gentiana pennelliana* Fernald, *Rhodora* 42: 198. 1940.
- DISINSTYLIS** Raf. Fl. Tellur. 3:31. 1836 [1837], *descr.*, *nom. nov.* *Chlora* Adans. (1763).
italica Raf. l.c., *descr.* (*Chlora imperfoliata* Linn. f.). Europe.
- *DITOMAGA** Raf. Act. Soc. Linn. Bordeaux 6:267. 1834, *nom.*, *nota*, *iter.* Merr. Proc. Am. Philos. Soc. 86:88. 1942=*Iribachia* Mart. (1827).
**nemorosa* Raf. l.c., *nom.* (*Claytonia nemorosa* Willd.), *iter.* Merr. l.c. Colombia=*Iribachia nemorosa* (Willd.) Merr. l.c. (*I. bonplandiana* Fenzl).
- #EUBLEPHIS** Raf. Med. Fl. 1:208. 1828, *descr.*, *iter.* Man. Med. Bot. 208. 1841, subgen. *Gentiana* (Type *Gentiana crinita* Froel.); Casket 1830:414. 1830, *nom.*; Sat. Eve. Post 9(482):[1]. 1830, *nom.*; Fl. Tellur. 3:25. 1836 [1837], *nom.* sub *Anthopogon* Neck.=*Gentiana* Linn.
- EUPODIA** Raf. Fl. Tellur. 3:29. 1836 [1837], *descr.*=*Chironia* Linn.
purpurea Raf. l.c., *descr.* (*Chironia peduncularis* Lindl. Bot. Reg. 21: t. 1803. 1835). South Africa.
- EVALTHE** Raf. Fl. Tellur. 3:77. 1836 [1837], *descr.*=*Chironia* Linn.
jasminoides Raf. l.c., *descr.* (*Chironia jasminoides* sensu Ker-Gawl. Bot. Reg. 3: t. 197. 1817). South Africa=*Chironia tabularis* Page.
- EXACUM** Linn.
**pusillum* Raf. Fl. Tellur. 3:49. 1836 [1837], *nom.* sub *Monosteria* Raf. [*Pladeria pusilla* Roxb.]. India=*Hoppea dichotoma* Willd.
- FRASERA** Walter.
verticillata Raf. Med. Fl. 1:196. f. 39. 1828, *descr.*, *iter.* Man. Med. Bot. 196. f. 39. 1841 (*Swertia difformis* Linn.; *Frasera carolinensis* Walt.; *F. walteri* Michx.)=*Swertia carolinensis* (Walt.) O. Kuntze; p.p.=*Sabatia difformis* (Linn.) Druce.
var. angustifolia Raf. op. cit. 199, *iter.* Man. Med. Bot. 199. 1841, *nom.*
oppositifolia Raf. l.c., *nom.*
pauciflora Raf. l.c., *nom.*
undulata Raf. l.c., *nom.*
- GENTIANA** Linn.
axillaris Raf. Med. Fl. 1:213. 1828, *descr.*, *iter.* Man. Med. Bot. 213. 1841. Western Kentucky.
**azurea* Raf. Western Minerva 41. 1821, *nom.*, *iter.* Fox, Sci. II. 12:213. 1900 [Kentucky].
**brevicaulis* Raf. Herb. Raf. 51. 1833, *nom.* Rocky Mountains or Oregon.
**breviflora* Raf. op. cit. 67, *nom.* Cumberland Mountains.
clausa Raf. Med. Fl. 1:210. 1828, *descr.*, *iter.* Man. Med. Bot. 210. 1841. Vermont, New York; see Fernald, *Rhodora* 19:149. 1917.
collinsiana Raf. op. cit. 213, *descr.* Western Kentucky, Illinois, Missouri.
**corinita* Raf. Casket 1828:475. 1828, *nom.*; Sat. Eve. Post 7(379):[4]. 1828, *nom.*, *sphalm.*=*G. crinita* Froel. Eastern North America.
**ellioteana* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Western Kentucky.
elliotea Raf. Med. Fl. 1:213. 1828, *descr.* Western Kentucky.
**glauca* Raf. Western Minerva 41. 1821, *nom.*, *iter.* Fox, Science II. 12:213, 1900; Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.
**gracilis* Raf. Med. Fl. 1:213. 1828, *descr.*, *iter.* Man. Med. Bot. 213. 1841. Western Kentucky.
**grisea* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
heterophylla Raf. Med. Fl. 1:211. 1828, *descr.*, *iter.* Man. Med. Bot. 211. 1841; Casket 1828:475. 1828, *nom.*; Sat. Eve. Post 7(379):[4]. 1828, *nom.* Virginia, Kentucky, Tennessee.
hybrida Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Eastern United States.
†leptina Raf. Précis Découv. Somiol. 38. 1814, *descr.*; Jour. Bot. (Desv.) 4:270. 1814, *descr.*; Fl. Tellur. 3:25. 1836 [1837], *nom.* sub *Thylacitis leptina* Raf.; Steud. Nomencl. 362. 1821, *nom.* Italy, near Livorno.
**loomesi* Torr. ex Raf. Fl. Tellur. 3:28. 1836 [1837], *nom.* in syn. sub *Xolemia trachiloma* Raf. North Carolina.
**mitchelliana* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
**officinalis* Raf. Fl. Tellur. 3:18. 1836 [1837], *nom. nov.* *G. lutea* Linn. Europe.
**palustris* Raf. Herb. Raf. 70. 1833, *nom.* Alabama or Florida.
**pratensis* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
**prostrata* Raf. l.c., *nom.* Kentucky.
**pseudopneum* Raf. Fl. Tellur. 3:20. 1836 [1837], *nom.* (*G. pseudopneumonanthae* Roem. & Schult.). Eastern North America=*G. linearis* Froel.
rigida Raf. Med. Fl. 1:212. 1828, *descr.*, *iter.* Man. Med. Bot. 212. 1841. Kentucky, Tennessee.
**rossica* Raf. Fl. Tellur. 3:19. 1836 [1837], *nom. nov.* *Gentiana septemfida* Pallas. Northern Asia.
serpentaria Raf. Ann. Nat. Ann. Synop. 13. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Med. Fl. 1:211. 1828, *descr.*, *iter.* Man. Med. Bot. 211. 1841. Indiana, Illinois, Kentucky.
†shortiana Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Med. Fl. 1:211. 1828, *descr.*, *iter.* Man. Med. Bot. 211. 1841, *descr.* Kentucky, Tennessee, Illinois.
var. biflora Raf. Med. Fl., op. cit. 212, *iter.* Man. Med. Bot. 212, *descr.*
†torreyana Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*, Med. Fl. Man. Med. Bot. l.c., *descr.* Kentucky, Tennessee, Illinois.
**trachiloma* Raf. Life of Travels 144. 1836, *nom.* New Jersey.
- GONIPIA** Raf. Fl. Tellur. 3:23. 1836 [1837], *nom.*, *nota* (Type *Gentiana centaurium* Linn.)=*Erythraea Renealm.* (1796).
bicolor Raf. op. cit. 24, *descr.* Lake Ontario.
linearis Raf. l.c., *descr.* (*Gentiana centaurium* Linn.). Northern Europe=*Erythraea centaurium* (Linn.) Pers.
paucifolia Raf. l.c., *descr.* Sicily.
pulchella Raf. op. cit. 24, *descr.* Florida.
pumila Raf. l.c., *descr.* Florida.
rotundifolia Raf. l.c., *descr.* (*Gentiana centaurium* Linn.). Northern Europe=*Erythraea centaurium* (Linn.) Pers.
sicula Raf. op. cit. 23, *descr.* Sicily.
tenuiflora Raf. op. cit. 24, *descr.* Louisiana, Texas.
- HETEROCLITA** Raf. Fl. Tellur. 3:27. 1836 [1837], *descr.*=*Canscora* Lam. (1785).
dichotoma Raf. l.c., *descr.* (*Gentiana heteroclita* Linn.; *Exacum heteroclitum* Willd.). India=*Canscora heteroclita* (Linn.) Gilg.
- LEIMANISA** Raf. New Fl. N. Am. 4:93. 1836 [1838], *descr.* sub *Bilamista* Raf.=*Gentiana* Linn.
pratensis Raf. ex Jacks*. Ind. Kew. 2:49. 1894 (*Gentiana pratensis* Froel.). Eurasia=*Gentiana amarella* Linn.
- LEPINEMA** Raf. Fl. Tellur. 3:26. 1836 [1837], *descr.*=*Enicostema* Blume (1826), *nom. conserv.* (*Hippion* Spreng., 1825).
verticillata Raf. Fl. Tellur. 3:27. 1836 [1837], *descr.* (*Gentiana verticillata* Linn.; *Exacum verticillatum* Willd.). Florida, West Indies=*Enicostema verticillatum* (Linn.) Engl. (*E. littorale* Blume).
- LISIANTHUS** Linn.
luteus Raf. Atl. Jour. 1:146. 1832, *nom.* (*L. glaucifolius* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:219. 1827). Canadian River=*Eustoma russellianum* (Linn.) Griseb.
- MENYANTHES** Linn.
†latifolia Raf. Herb. Raf. 50. 1833, *nom.*; New Fl. N. Am. 2:20. 1836 [1837], *descr.* Oregon=*M. trifoliata* Linn.
†tridentata Raf. l.c., *nom.*, *descr.* Oregon=*M. trifoliata* Linn.
verna Raf. Med. Fl. 2:33. f. 63. 1830, *descr.* (*Menyanthes trifoliata* auct. Am.; *M. trifoliata* Linn. var. *minor* Michx.); New Fl. N. Am. 2:20. 1836 [1837], *nom.* North America=*M. trifoliata* Linn.
- *MESADENIA** Raf. Med. Fl. 1:198. 1828, *nom. nov.* *Frasera* Walt., *iter.* Man. Med. Bot. 198. 1841=*Frasera* Walt.

- MONOSTERIA** Raf. Fl. Tellur. 3:49. 1836 [1837], *descr.* = *Hoppea* Willd. (1801).
dichotoma Raf. l.c., *descr.* (*Exacum pusillum* Raf. [*Pladeria pusilla* Roxb.]; *Hoppea dichotoma* Vahl). India = *Hoppea dichotoma* Willd.
- NARKETIS** Raf. Fl. Tellur. 3:26. 1836 [1837], *descr.*; New Fl. N. Am. 4:93. 1836 [1838] *nom.* = *Lomatogonium* A. Br. (1830); see Fernald, *Rhodora* 21:194. 1919.
carinthiaca Raf. ex Jacks*. Ind. Kew. 2:295. 1894 (*Gentiana carinthiaca* Froel.) = *Pleurogyna carinthiaca* (Froel.) G. Don. Eurasia.
hyperborea Raf. Fl. Tellur. 3:26. 1836 [1837], *descr.* Vancouver Island (Kotzebue Sound) = *Pleurogyna rotata* Griseb. = *Lomatogonium rotatum* (Linn.) Fries.
japonica Raf. l.c., *nom.* (*Swertia rotata* sensu Thunb.). Japan = *Swertia chinensis* (Bunge) Franch.
rotata Raf. l.c., *descr.* Altai Mountains = *Pleurogyna rotata* Griseb. = *Lomatogonium rotatum* (Linn.) Fries; see Fernald, *Rhodora* 21:194. 1919.
sulcata Raf. ex Jacks*. Ind. Kew. 2:295. 1894 (*Gentiana sulcata* Willd.) = *praec.*
- NEUROLA** Raf. New Fl. N. Am. 4:92. 1836 [1838], *descr.* sub *Sabatia*? *nervosa* Raf. = *Sabatia* Adans. (1763).
arkanica Raf. l.c., *nom.* alt. *Sabatia*? *nervosa* Raf., Aut. Bot. 55. 1840, *nom.* Arkansas.
- OBOLARIA** Linn.
**ramosa* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 60. 1833, *nom.* Kentucky.
- ONEFERA** Raf. Fl. Tellur. 3:30. 1836 [1837], *descr.* = *Chironia* Linn.
coccinea Raf. l.c., *descr.* (*Chironia linoides* Linn.). South Africa.
- PARASIA** Raf. ex Jacks*. Ind. Kew. 2:424. 1894, *sphalm.* = *seq.*
cordata Raf. ex Jacks*. l.c. (*Exacum cordatum* Linn. f.). South Africa = *Belmontia exacoides* (Linn.) Druce (*B. cordata* E. Mey.).
- *PARRASIA* Raf. Fl. Tellur. 3:78. 1836 [1837], *descr.* = *Belmontia* E. Mey. (1837), *nom. conserv.* (*Parrasia* Raf., 1837).
**cordata* Raf. l.c., *descr.* (*Exacum cordatum* Linn. f.; *Gentiana exacoides* Linn.). South Africa = *Belmontia exacoides* (Linn.) Druce (*B. cordata* E. Mey.).
- #PICRIZA* Raf. Fl. Tellur. 3:18. 1836 [1837], *descr.*, subgen. *Gentiana* Linn. (Type *Gentiana lutea* Linn.) = *seq.*
- *PIORIZA* Raf. Sylva Tellur. 3:99. 1836 [1837], *nom.* in indice, *sphalm.* = *Picriza* Raf. (1837) = *Gentiana* Linn.
- PLEIENTA** Raf. Fl. Tellur. 3:30. 1836 [1837], *descr.*; Good Book 46. 1840, *nom.* = *Sabatia* Adans. (1763) (*Lapitheia* Griseb., 1845).
capitata Raf. l.c., *descr.* Unaka and Cherokee Mountains, North Carolina = *Sabatia capitata* (Raf.) Blake (*S. boykinii* Gray; *Lapitheia capitata* Small).
dodecandra Raf. ex Jacks*. Ind. Kew. 2:561. 1894 (*Chlora dodecandra* Linn.). Eastern North America = *Sabatia dodecandra* (Linn.) Britton, Sterns & Poggenb.
fasciculata Raf. Fl. Tellur. l.c., *nom.*
flexuosa Raf. l.c., *nom.*
**gentianoides* Raf. op. cit. 31, *nom.*, sub *P. capitata* Raf. [*Sabatia gentianoides* Ell.]. Southeastern United States = *Sabatia gentianoides* Ell. (*Lapitheia gentianoides* Griseb.).
leucantha Raf. op. cit. 30, *nom.* (*Sabatia gracilis* Ell.); New Fl. N. Am. 4:92. 1836 [1838], *descr.*; Aut. Bot. 55. 1840, *nom.* New Jersey to Florida, on seashores = *Sabatia campanulata* (Linn.) Torr.
quinquenervia Raf. New Fl. N. Am. 4:91. 1836 [1838], *descr.*; Aut. Bot. 55. 1840, *nom.* Louisiana.
rigida Raf. Fl. Tellur. 3:30. 1836 [1837], *nom.* (*Chlora dodecandra* Linn.); Herb. Raf. 80. 1833, *nom.* (*Chlora dodecandra* Linn.; *Chironia decandra* Walt.). Alabama or Florida = *Sabatia dodecandra* (Linn.) Britton, Sterns & Poggenb. (*S. chloroides* Pursh), et *S. decandra* (Walt.) Harper.
- PLEURIMARIA** Raf. ex Jacks*. Ind. Kew. 2:563. 1894 = *Plurimaria* Raf. = *Chlora* Adans. (1763).
mascariensis Raf. ex Jacks*. l.c. (*Chlora mascariensis* Desf.). Europe, Asia Minor = *Chlora perfoliata* Linn.
perfoliata Raf. ex Jacks*. l.c. (*Chlora perfoliata* Linn.). Europe, Asia Minor.
quadrifolia Raf. ex Jacks*. l.c. (*Chlora quadrifolia* Linn.). Southern Europe.
- #PLEUROGLOSSA* Raf. Fl. Tellur. 3:19. 1836 [1837], *descr.*, subgen. *Gentiana* Linn. (Type *Gentiana punctata* Linn.).
- #PLURIMARIA* Raf. Med. Fl. 2:76. 1830, *nom.*, subgen. *Sabatia* Adans.
- *PLURIMARIA* Raf. Fl. Tellur. 3:31. 1836 [1837], *descr.* (Type *Chlora perforata* Linn.) = *Chlora* Adans. (1763); see also *Pleurimaria* Raf. ex Jacks.
- PNEUMONANTHE** Gleditsch = *Gentiana* Linn.
gracilis Raf. Fl. Tellur. 3:28. 1836 [1837], *nom.* (*Gentiana gracilis* Nees). Europe, North America = *Gentiana amarella* Linn.
media Raf. op. cit. 19, *descr.*, 28, *nom.* (*Gentiana pneumonanthe* auct. Am., non Linn.; *G. pseudo-pneumonanthe* Roem. & Schult.). Canada and New England = *Gentiana linearis* Froel.
minor Raf. op. cit. 28, *descr.* Europe = *Gentiana pneumonanthe* Linn.
rigida Raf. l.c., *nom.* (*Gentiana rigida* Raf.). Kentucky, Tennessee.
torreyana Raf. l.c., *nom.* (*Gentiana torreyana* Raf.). Kentucky, Tennessee, Illinois.
**vulgaris* Raf. l.c., *descr.* (*Gentiana pneumonanthe* Linn.). Eurasia (*Pneumonanthe vulgaris* W. F. Schmidt, 1796).
- POGOBLEPHIS** Raf. Fl. Tellur. 3:26. 1836 [1837], *descr.* = *Gentiana* Linn.
missurica Raf. l.c., *descr.* (*Gentiana acuta* sensu Nutt.). Upper Missouri = *Gentiana amarella* Linn. var. *acuta* (Michx.) Herder.
- PSALINA** Raf. Fl. Tellur. 3:25. 1836 [1837], *descr.* = *Gentiana* Linn.
exacoides Raf. ex Jacks*. Ind. Kew. 2:637. 1894 (*Gentiana exacoides* Linn.). South Africa = *Belmontia exacoides* (Linn.) Druce. (*B. cordata* E. Mey.) = *Sebaea exacoides* (Linn.) Schinz.
utriculosa Raf. ex Jacks*. l.c. (*Gentiana utriculosa* Linn.). Europe.
- RICOLA** Raf. Fl. Tellur. 3:23. 1836 [1837], *descr.* [*Ericala* Reneaulme Spec. Hist. Pl. 75. 1611] = *Gentiana* Linn.
bavarica Raf. l.c., *nom.* (*Gentiana bavarica* Linn.). Europe.
pumila Raf. l.c., *nom.* (*Gentiana pumila* Jacq.). Europe.
verna Raf. l.c., *nom.* (*Gentiana verna* Linn.). Europe.
- #ROTULARIA* Raf. Med. Fl. 1:208. 1828, *descr.*, subgen. *Gentiana* Linn., iter. Man. Med. Bot. 208. 1841 (Type *Gentiana lutea* Linn.); Casket 1830:414. 1830, *nom.*; Sat. Eve. Post 9(482):[1]. 1830, *nom.* = *Gentiana* Linn.
- SABATIA** Adans. (*Sabbatia* auct.).
**albeola* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
amena Raf. Fl. Tellur. 3:30. 1836 [1837], *nom.* Hab.?
anceps Raf. l.c., *nom.* Hab.?
angularis Pursh; Raf. Med. Fl. 2:76. 1830. North America. var. *albiflora* Raf. op. cit. 77, *nom.*
elatior Raf. l.c., *nom.*
latifolia Raf. l.c., *nom.*
brevifolia Raf. Atl. Jour. 1:147. 1832, *descr.* Florida.
**centaurium* Raf. Casket 1827:316. f. 29. 1827, *nom.*, nota (*Gentiana centaurium* Linn.; *Chironia centaurium* Schmidt); Sat. Eve. Post 6(318):[4]. 1827. Europe = *Centaurium umbellatum* Gilibert.
**cymosa* Raf. Fl. Tellur. 3:30. 1836 [1837], *nom.* Hab.?
**declinata* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
diffusa Raf. Fl. Tellur. 3:30. 1836 [1837], *nom.* Hab.?
heterophylla Raf. l.c., *nom.* Hab.?
**lanceolata* Raf. l.c., *nom.* Hab.?
lingulata Raf. l.c., *nom.* Hab.?
**maritima* Raf. Med. Fl. 2:77. 1830, *descr.* New Jersey, New York = *S. stellaris* Pursh.
nervosa Raf. New Fl. N. Am. 4:92. 1836 [1838] *descr.*; Aut. Bot. 55. 1840, *nom.* Arkansas.
nivea Raf. Med. Fl. 2:77. 1830, *descr.*; Fl. Tellur. 3:30. 1836 [1837], *nom.* Kentucky.
obtusifolia Raf. Fl. Tellur. 3:30. 1836 [1837], *nom.* Hab.?
petiolata Raf. l.c., *nom.* Hab.?
**pulchella* Raf. Herb. Raf. 69. 1833, *nom.* (*pulchella*); Griseb. in DC. Prodr. 9:49. 1849, *nom.*, in syn. Long Island, New Jersey, Chesapeake Bay = *Sabatia gracilis* Salisb. = *Sabatia campanulata* (Linn.) Britton.
pumila Raf. Herb. Raf. 69. 1833, *nom.*; Fl. Tellur. 3:30. 1836 [1837], *nom.* Long Island, New Jersey, Chesapeake Bay.

SABATIA (*continued*).

- stricta Raf. Fl. Tellur. 3:30. 1836 [1837], *nom.* Hab.?
 tenuifolia Raf. l.c., *nom.* Hab.?
 umbellata Raf. l.c., *nom.* Hab.?
SHULTZIA Raf. ex Jacks*. Ind. Kew. 2:834. 1895 = Shultzia Raf. (1806) = Obolaria Linn.
 obolarioides Raf. ex Jacks*, l.c. (*Shultzia obolarioides* Raf.). Pennsylvania = Obolaria virginica Linn.
 †**SHULTZIA** Raf. Med. Repos. II. 3:422. 1806, *nom.*; op. cit. 5:356. 1808, *descr.*; Jour. Bot. (Paris) 1:219. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:172. 1818, *nom.* = Obolaria Linn.
 *obolarioides Raf. ll.cc. *nom.*, *descr.* Pennsylvania = Obolaria virginica Linn.
SYNALLODIA Raf. New Fl. N. Am. 4:93. 1836 [1838], *nom.* = Swertia Linn.
 japonica Raf. l.c., *nom.* (*Swertia rotata* Thunb., non Linn.). Japan = Swertia japonica (Schult.) Nakai.
TETROHIZA Raf. ex Jacks*. Ind. Kew. 2:1055. 1895, *sphalm.* = Tretorhiza Adans. (1763) = Tretorrhiza Renealm. (1800) = Gentiana Linn.
THYLACITIS Raf. Fl. Tellur. 3:25. 1836 [1837], *descr.* (*Thylakitis* Reneaulme Spec. Hist. Pl. 70. 1611) = Erythraea Renealm. (1796).
 compressa Raf. l.c., *descr.* (*Gentiana maritima* Linn., "var."; *Erythraea maritima* Pers., "var."). Morocco.
 leptina Raf. l.c., *descr.* (*Gentiana leptina* Raf.). Italy, Sicily.
 maritima Raf. l.c., *descr.* (*Gentiana maritima* Linn.; *Erythraea maritima* Pers.). Europe.
TRACHYSPERMA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.* = Limnanthemum S. T. Gmel. (1770) = Nymphoides Hill (1756).
 natans Raf. ll.cc., *nom.* (*Menyanthes trachysperma* Michx.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* Eastern North America = Limnanthemum trachyspermum A. Gray = Nymphoides aquaticum (Walt.) Fernald.
 ***TRASERA** Raf. Cincinnati Lit. Gaz. 2:11. 1824, *nom.*, *sphalm.* = Frasera Walt. (1788).
 #**TULBELA** Raf. Fl. Tellur. 3:19. 1836 [1837], *descr.*, subgen. *Gentiana* Linn. (Type *Gentiana rossica* Raf. = *G. septemfida* Pallas) = *Gentiana* Linn.
XOLEMIA Raf. Fl. Tellur. 3:20, 22. 1836 [1837], *descr.*, *nom.* nov. *Cutlera* Raf. 1818; New Fl. N. Am. 4:93. 1836 [1838], *nom.* = *Gentiana* Linn.
 acuminata Raf. Fl. Tellur. l.c., *nom.* Hab.?
 albiflora Raf. l.c., *nom.* [*Gentiana albiflora* Lam.]. Europe.
 axillaris Raf. l.c., *nom.* [*Gentiana axillaris* Raf.]. Western Kentucky.
 catesbyi Raf. l.c., *nom.* [*Gentiana catesbaei* Walt.]. South-eastern United States.
 clausa Raf. l.c., *nom.* [*Gentiana clausa* Raf.]. Vermont, New York.
 collinsiana Raf. l.c., *nom.* [*Gentiana collinsiana* Raf.]. Kentucky, Illinois, Missouri.
 eliotea Raf. l.c., *nom.* [*Gentiana eliotea* Raf.]. Western Kentucky.
 enervis Raf. l.c., *nom.* Hab.?
 fistulosa Raf. l.c., *nom.* Hab.?
 heterophylla Raf. l.c., *nom.* [*Gentiana heterophylla* Raf.]. Virginia, Kentucky, Tennessee.
 latifolia Raf. l.c., *nom.* Hab.?
 longiflora Raf. l.c., *nom.* Hab.?
 obovata Raf. l.c., *nom.* Hab.?
 palustris Raf. l.c., *nom.* [*Gentiana palustris* Raf.]. Florida.
 rotundifolia Raf. l.c., *nom.* Hab.?
 rubella Raf. l.c., *nom.* Hab.?
 serpentaria Raf. l.c., *nom.* [*Gentiana serpentaria* Raf.]. Indiana, Illinois, Kentucky.
 shortiana Raf. l.c., *nom.* [*Gentiana shortiana* Raf.]. Kentucky, Tennessee, Illinois.
 striata Raf. l.c., *nom.* Hab.?
 terniflora Raf. l.c., *nom.* Hab.?
 trachiloma Raf. op. cit. 28, *descr.* New Jersey.
 var. biflora Raf. l.c., *descr.*
 major Raf. l.c., *descr.* (*Gentiana loomesi* Torr.). North Carolina.

APOCYNACEAE**AMSONIA** Walt.

- *glaucua Raf. Herb. Raf. 61. 1833, *nom.* Kentucky or Illinois.

- ANSONIA** Raf. New Fl. N. Am. 4:58. 1836 [1838], *nom.*; Aut. Bot. 22. 183. 1840, *nom.* = *Amsonia* Walt. (1788).
 *angustifolia Raf. ll.cc., *nom.* [*Amsonia angustifolia* Michx.]. North America.
 *ciliata Raf. ll.cc., *descr.*, *nom.* (*Amsonia ciliata* Walt.). Carolina.
 elliptica Raf. ll.cc., *descr.*, *nom.* (*Amsonia elliptica* Roem. & Schult.). Alabama.
 latifolia Raf. ll.cc., *descr.*, *nom.* (*Amsonia latifolia* Michx.). Carolina, Louisiana = *Amsonia tabernaemontana* Walt.
 salicifolia Raf. ll.cc., *descr.*, *nom.* (*Amsonia salicifolia* Pursh). Kentucky to Louisiana.
 tenuifolia Raf. ll.cc., *descr.*, *nom.* Florida.
APOCYNUM Linn.
 androsaemifolium Linn. North America.
 var. acuminatum Raf. Med. Fl. 1:262. 1828, *nom.*
 acutifolium Raf. l.c., *nom.*
 latifolium Raf. Aut. Bot. 181. 1840, *nom.*
 obtusifolium Raf. Med. Fl. l.c., *descr.*
 parvifolium Raf. Aut. Bot. 181. 1840, *nom.*
 pauciflorum Raf. l.c., *nom.*
 roseum Raf. Med. Fl. l.c., *nom.*
 *clandestinum Raf. Aut. Bot. 181. 1840, *descr.* New Jersey.
 *dimidiatum Raf. l.c., *descr.* Florida.
 hypericifolium Ait. = *A. cannabinum* Linn. Eastern North America.
 var. angustifolium Raf. op. cit. 182, *nom.*
 latifolium Raf. l.c., *nom.*
 procumbens Raf. l.c., *nom.*
 *molle Raf. l.c., *descr.* Alleghany Mountains.
 *rotundifolium Raf. l.c., *descr.* Alleghany Mountains.
CASCABELA Raf. Sylva Tellur. 162. 1838, *descr.* = *Thevetia* Adans. (1763), *nom. conserv.* (*Ahouai* Boehm., 1760).
 peruviana Raf. l.c., *descr.* (*Cerbera peruviana* Pers.; *Cerbera thevetia* Linn.) = *Thevetia peruviana* (Pers.) K. Schum. (*T. nereifolia* Juss.).
CERBERA Linn.
 *ahouai Raf. Sylva Tellur. 162. 1838, *nom.*, *nota* (*Cerbera ahouai* Linn.). South America = *Thevetia ahouai* A. DC. = *Plumieropsis ahouai* (Linn.) Rusby & Woods. N. Am. Fl. 29:132. 1938 (*Ahouai nitida* Pichon, Not. Syst. 13:227. 1948).
ECHITES P. Browne.
 *acuminata Raf. Herb. Raf. 60. 1833, *nom.* Illinois or Kentucky.
 salicifolia Raf. New Fl. N. Am. 4:59. 1836 [1838], *descr.*; Aut. Bot. 183. 1840, *nom.*, non Willd. Florida = *Trachelospermum difforme* (Walt.) A. Gray.
 tomentosa Raf. Fl. Ludovic. 46. 1817, *descr.* (*Liseron ligneux* Rob. Voy. Louis. 3:402. 1807). Louisiana = ? *praec.*
LACTARIA Raf. Sylva Tellur. 162. 1838, *descr.* = *Ochrosia* Juss. (1789).
 salubris Raf. l.c., *nom.* (*Lactaria salubris* Rumph. Herb. Amb. 2:255. t. 84. 1741; *Cerbera oppositifolia* Lam.). Moluccas = *Ochrosia oppositifolia* (Lam.) K. Schum.; see Merrill, Interpret. Rumph. Herb. Amb. 431. 1917.
NEIOSPERMA Raf. Sylva Tellur. 162. 1838, *descr.* = *Ochrosia* Juss. (1789).
 muricata Raf. l.c., *nom.* (*Cerbera platyspermos* Gaertn.). Mascarene Islands = *Ochrosia borbonica* Gmel.
 musciformis Raf. l.c., *nom.* (*Cerbera musciformis* Lam.). Moluccas = *Neuburgia musciformis* (Lam.) Miq.; see Merrill, Interpret. Herb. Amb. 425. 1917 (Loganiaceae).
ODOLLAMIA Raf. Sylva Tellur. 162. 1838, *descr.* [*Odollam* Adans.] = *Cerbera* Linn.
 malabarica Raf. l.c., *nom.* (*Odollam* Rheede, Hort. Malabar. 1:71. t. 39. 1678). India = *Cerbera manghas* Linn.
 manghas Raf. l.c., *nom.* (*Cerbera manghas* Linn.). Indo-Malaysia = *Cerbera manghas* Linn. (*C. odollam* Gaertn.)
 moluca Raf. l.c., *nom.* "Odollam Rumpf. 1.t. 124." *sphalm.*²⁹ Moluccas. Ut videtur = *Cerbera manghas* Linn.
 ***OPHYOXYLON** Raf. First Cat. Bot. Gard. Transylv. Univ. 22. 1824, *nom.* = *Ophioxylon* Linn.
 *serpentinum Raf. l.c., *nom.* = *Ophioxylon serpentinum* Linn. = *Rauwolfia serpentina* (Linn.) Benth. India.
PERVINCA Adans. = *Vinca* Linn.
 *heterophylla Raf. Aut. Bot. 184. 1840, *descr.* England, Ireland = *Vinca minor* Linn.

²⁹ Rumphius "1.t. 124" is an error, there being but 82 plates in volume one of the *Herbarium Amboinense*; neither is there any "Odollam" in Rumphius' work.

*repens Raf. l.c., *descr.* Europe; naturalized in Pennsylvania = *Vinca minor* Linn.

*sacula Raf. l.c., *descr.* Sicily.

***TABERNARIA** Raf. Fl. Tellur. 1:17, 86. 1837, *nom. nov.* *Tabernaemontana* Linn.

THEVETIA Linn.

ahoui Raf. Sylva Tellur. 91. 1838, *nom.* South America = *T. ahouai* A. DC. = *Plumieropsis ahouai* (Linn.) Rusby & Woods. (*Ahová nitida* Pichon).

linearis Raf. l.c., *nom.* (*Cerbera thevetia* Linn.). South America = *Thevetia peruviana* (Linn.) K. Schum.

ASCLEPIADACEAE

†**ACEROTIS** Raf. Am. Monthly Mag. Crit. Rev. 3:99. 1818, *nom. nov.* *Acerates* Ell. (1817); New Fl. N. Am. 1:49. 1836, *nom.*, *nota* (*Otanema* Raf.); op. cit. 4:60. 1836 [1838], *nom.*, *nota*; Aut. Bot. 180, 200. 1840, *nom.* = *Acerates* Ell. (1817) = *Asclepias* Linn.

AMPELAMUS Raf. Am. Monthly Mag. Crit. Rev. 4:192. 1819, *nom. nov.* *Enslenia* Nutt. (1818), non Raf. (1817); op. cit. 207, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.* (*Enslenia* Nutt. (*sphalm.* Raf. "*Emlenia*") (1818), non Raf. (1817); Herb. Raf. 62. 1833, *nom.* (*Enslenia albida* Nutt.) = *Enslenia* Nutt. (1818) = *Gonolobus* Michx. (1803).

**riparius* Raf. Aut. Bot. 183. 1840, *nom.* (*Enslenia albida* Nutt.). Ohio to Missouri = *Gonolobus laevis* Michx. (*Cynanchum laeve* Pers.).

AMPELANUS Raf. ex Jacks*. Ind. Kew. 1:110. 1893, *sphalm.* = *Ampelamus* Raf. = *Enslenia* Nutt. (1818) = *praec.*

ANANTHERIX Nutt. = *Asclepiodora* A. Gray (1876) = *Asclepias* Linn.

angustifolia Raf. ex Jacks*. Ind. Kew. 1:116. 1893 (*Anantherix angustifolia* Raf.). Central United States = *Asclepias capricornia* Woods. Ann. Missouri Bot. Gard. 32:370. 1945. *grandiflora* Raf. New Fl. N. Am. 4:59. 1836 [1838], *descr.*; Aut. Bot. 22, 180. 1840, *nom.* Arkansas = *Asclepias viridis* Walt.

ovata Raf. ex Jacks*. l.c. (*Anantherix ovata* Raf.). Central United States = *Asclepias viridis* Walt.

verrucosa Raf. New Fl. N. Am. 4:60. 1836 [1838], *nom.*, *nota* (*Asclepias connivens* Baldw. ex Ell.); Aut. Bot. l.c., *nom.* Alabama = *Asclepias connivens* Baldw. (*Anantherix connivens* Feay in Wood, Class-Book 594. 1861).

ANANTHERIX Steud. (1821), *sphalm.*; Torr. Ann. Lyc. Nat. Hist. N. Y. 2:219. 1827, *nom.*; Raf. Atl. Jour. 1:146. 1832, *nom.* = *Anantherix* Nutt. (1818) = *Asclepiodora* A. Gray (1876) = *Asclepias* Linn.

**angustifolia* Raf. l.c., *nom.* (*Anantherix* n. sp. Nutt.; Torr. Ann. Lyc. Nat. Hist. N. Y. 2:219. 1827). Central United States = *Asclepias capricornia* Woods. Ann. Missouri Bot. Gard. 32:370. 1945.

**ovata* Raf. l.c., *nom.* (*Anantherix* n. sp. Nutt.; Torr. l.c. *descr.*) Central United States = *Asclepias viridis* Walt.

ANTHANOTIS Raf. Fl. Ludovic. 52 (subgen.), 149, (gen.) 1817, *nom.*, *nota* (*Asclepias?* *procumbens* Raf.); Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.*, *nota* (*Acerates* Ell.) = *Asclepiodora* A. Gray (1876) = *Asclepias* Linn.

pedicellata Raf. ex Jacks*. Ind. Kew. 1:143. 1893 (*Asclepias pedicellata* Walt.). Southeastern United States = *Asclepias pedicellata* Walt. (*Podostigma pedicellata* Vail).

procumbens Raf. Fl. Ludovic. 149. 1817, *nom.*, *nota* (*Asclepias?* *procumbens* Raf. op. cit. 51; *Asclépiade* 2, *Herbe à la houate* Rob. Voy. Louis. 3:413. 1807). Louisiana.

viridis Raf. ex Jacks*. Ind. Kew. 1:143. 1893 (*Asclepias viridis* Walt.). Carolina = *Asclepiodora viridis* (Walt.) A. Gray = *Asclepias viridis* Walt.

ASCLEPIAS Linn.

acuminata Pursh. North America.

var. *angustifolia* Raf. Aut. Bot. 180. 1840, *nom.*

latifolia Raf. l.c., *nom.*

longifolia Raf. l.c., *nom.*

albiflora Raf. New Fl. N. Am. 4:62. 1836 [1838], *descr.*; Aut. Bot. 177. 1840, *nom.* Unaka or Iron Mountains, North Carolina = *Asclepias incarnata* Linn., f. *albiflora* Heller.

**annulata* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.

**capitellata* Raf. Med. Fl. II. 5:354. 1808, *nom. nov.* A. *syriaca* Linn. Eastern United States.

**cuneifolia* Raf. Aut. Bot. 179. 1840, *descr.* Virginia, Florida = *Asclepias tuberosa* Linn.

cutea Raf. Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.* Near Philadelphia.

dasyopus Raf. Atl. Jour. 1:152. 1832, *descr.* Near Lakes Erie and Ontario = *Asclepias purpurascens* Linn.

**elliptica* Raf. Aut. Bot. 179. 1840, *descr.* Pennsylvania, Kentucky = *Asclepias tuberosa* Linn.

**flexuosa* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.

fragrans Raf. Med. Repos. II. 5:354. 1808, *nom. nov.* A. *syriaca* Linn.; Jour. Bot. (Paris) 2:174. 1809, *nom.* (A. *syriaca* Linn.). North America = A. *syriaca* Linn.

**gonalis* Raf. Aut. Bot. 178. 1840, *descr.* Arkansas = ? *Asclepias purpurascens* Linn.

**lancifolia* Raf. Aut. Bot. 177. 1840, *descr.* Florida = *Asclepias perennis* Walt.

**lasiotis* Raf. op. cit. 178, *descr.* New Jersey = ? *Asclepias purpurascens* Linn.

latifolia (Torr.) Raf. Atl. Jour. 1:146. 1832, *nom.* (*Asclepias obtusifolia* Michx. var. *latifolia* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:217. 1827, *descr.*). Canadian River? (A. *jamesii* Torr.). Nebraska to Utah, Texas and Arizona.

lutea Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:229. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* Pennsylvania, near Philadelphia = *Asclepias tuberosa* Linn.

†*maritima* Raf. Am. Monthly Mag. Crit. Rev. 2:119. 1817, *descr.*; Fl. Ludovic. 170. 1817, *nom.*; Herb. Raf. 69. 1833, *nom.*; New Fl. N. Am. 4:62. 1836 [1838], *nom.*; Aut. Bot. 178. 1840, *descr.*; Decne. in DC. Prodr. 8:567. 1844, *nom.* in syn. sub *Asclepias incarnata* Linn. var. *pulchra* Decne. Long Island to Carolina = *Asclepias incarnata* Linn. var. *pulchra* (Ehrh.) Pursh.

megalotis Raf. New Fl. N. Am. 4:61. 1836 [1838], *descr.*; Aut. Bot. 177. 1840, *nom.* Florida = *Asclepias obovata* Ell.

parviflora Ait. North America.

var. *angustifolia* Raf. Aut. Bot. 179. 1840, *nom.*

debilis Raf. l.c., *nom.*

lanceolata Raf. l.c., *nom.*

latifolia Raf. l.c., *descr.* Florida.

longifolia Raf. l.c., *nom.*

paupercula Michx. Eastern North America.

var. *latifolia* Raf. Aut. Bot. 180. 1840, *nom.*

longifolia Raf. l.c., *nom.*

procumbens Raf. Fl. Ludovic. 51. 1817, *descr.* (*Asclépiade* 2, Rob. Voy. Louis. 3:413. 1807). Louisiana.

quadrifolia Jacq. var. *oppositifolia* Raf. Aut. Bot. 177. 1840, *descr.* (*Asclepias vanillea* Raf.). Maryland to Kentucky.

revoluta Raf. Fl. Ludovic. 51. 1817, *descr.* (*Asclépiade* 1, Rob. Voy. Louis. 3:413. 1807). Louisiana = *Asclepias tuberosa* Linn.

**riparia* Raf. Aut. Bot. 178. 1840, *nom. nov.* *provis.* *Asclepias incarnata* Linn. Eastern North America.

rotundifolia Raf. Atl. Jour. 1:152. 1832, *descr.*, non Mill. (1768). Near Lakes Erie and Ontario = *Asclepias amplexicaulis* J. E. Sm.

**scabra* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.

**sericea* Raf. Aut. Bot. 179. 1840, *nom. nov.* *Asclepias syriaca* Linn. Eastern North America = *Asclepias syriaca* Linn.

serpentaria Raf. Fl. Ludovic. 10, *nom.*, 52, *descr.*, 1817 (*Asclépiade* è *cornets pourpres* Rob. Voy. Louis. 3:415. 1807); Med. Fl. 2:196. 1830, *nom.* Louisiana = *Asclepias lanceolata* Walt.

tuberosa Linn. North America.

var. *angustifolia* Raf. Med. Fl. 1:264. 1828, *nom.*

cordata Raf. Aut. Bot. 179. 1840, *nom.*

decumbens Raf. ll.cc., *nom.* (*Asclepias decumbens* Linn.?).

erecta Raf. Aut. Bot. 179. 1840, *nom.*

latifolia Raf. l.c., *nom.*

obtusifolia Raf. l.c., *nom.*

pauciflora Raf. l.c., *nom.*

praealta Raf. Med. Fl. 1:264. 1828, *nom.*

undulata Raf. ll.cc., *nom.*

**vanilla* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; New Fl. N. Am. 4:62. 1836 [1838], *nom.*, *nota.* Kentucky = *Asclepias quadrifolia* Jacq.

ASCLEPIAS (*continued*).

- †*vanillea* Raf. Am. Monthly Mag. Crit. Rev. 4:40. 1818, *descr.*; Spreng. Neue Entdeck. 1:145. 1820, *descr.* Kentucky=praec.
- variegata* Linn. North America.
var. *pumila* Raf. Aut. Bot. 179. 1840, *nom.*
 rotundifolia Raf. l.c., *nom.*
 undulata Raf. l.c., *nom.*
- villosa* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*, non Mill. (1768). Central Atlantic United States.
- viridiflora* Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. (Paris) 1:227. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.*; op. cit. 2:174, 176. 1818, *nom.*, *nota*; op. cit. 4:193. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.*, *nota*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Pennsylvania to Maryland and Kentucky (*Asclepias viridiflora* Pursh, Fl. Am. Sept. 1:181. 1814)=*Asclepias viridiflora* Raf. (*Acerates *viridiflora* Eaton, Man. ed. 5, 99. 1829).
- CURNILIA** Raf. Sylva Tellur. 21. 1838, *descr.*=*Reinera* Dennst. (1818)=*Curinila* Roem. & Schult. (1819)=*Leptadenia* R. Br. (1809).
sarmentosa Raf. l.c., *descr.* (*Curinil* Rheede Hort. Malabar. 7:47. t. 25. 1688). India=*Curinila rheedi* Roem. & Schult. (=Reinera baypinensis Dennst.=*Leptadenia reticulata* (Retz) Wight & Arn.
- CYNANCHUM** Linn.
microphyllum Raf. New Fl. N. Am. 4:59. 1836 [1838], *descr.*; Aut. Bot. 182. 1840, *nom.* Florida=*Cynanchum scoparium* Nutt.
- ***EMLANIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.*, *sphalm.*=*Ensenlia* Nutt. (1818)=*Cynanchum* Linn.
- GOÑOLOBUS** Michx.
biflorus Raf. New Fl. N. Am. 4:58. 1836 [1838], *descr.*; Aut. Bot. 182. 1840, *nom.* Arkansas and Texas=*Matelea biflora* (Raf.) Woods. Ann. Missouri Bot. Gard. 28:228. 1941.
**discolor* Raf. ex M'Murtrie Sketch. Louisv. 218. 1819, *nom.* Kentucky.
**leve* Raf. Fl. Ludovic. 139. 1817, *nom.*=*G. laevis* Michx.
**levigatus* Raf. Aut. Bot. 183. 1840, *descr.* Carolina, Florida =*Gonolobus gonocarpus* (Walt.) Perry.
- ***GYMNIMA** Raf. ex Britten, Jour. Bot. 38:226. 1900, *nom.*, *sphalm.*=*Gymnema* R. Br.
- ***LYONSIA** Raf. New Fl. N. Am. 4:107. 1836 [1838], *nom.* nov. *Lyonia* Ell., non *Lyonia* Raf. (1808), nec Nutt. (1818) =*Lyonia* Ell. (1817)=*Cynanchum* Linn.
- †*cuspidata* Raf. op. cit. 4:59. 1836 [1838], *descr.*; Aut. Bot. 22. 182. 1840, *nom.* (Ind. Kew. 2:133. 1894 sub *Lyonsia* R. Br.). Florida=*Cynanchum scoparium* Nutt.
- **maritima* Raf. New Fl. N. Am. l.c., *nom.*, *nota* (*Lyonia maritima* Ell.); Aut. Bot. 182, *nom.* Southeastern United States=*Cynanchum angustifolium* Pers. (1805).
**scoparia* Raf. Aut. Bot. 182. 1840, *nom.* (*Cynanchum scoparium* Nutt.). Florida=*Cynanchum scoparium* Nutt.
- ***MACBRIDEA** Raf. Am. Monthly Mag. Crit. Rev. 3:99. 1818, *nom.* nov. *Lyonia* Ell. (1817), in *nota* sub *Lyonia* [Ell.], non *Lyonia* Raf. (1808), nec Nutt. (1818); op. cit. 4:189. 1819, *nom.*, non *Macbridea* Ell. (1818)=*Cynanchum* Linn.
- **maritima* Raf. l.c., *nom.* (err. *maratima*) [*Lyonia maritima* Ell.]. Southeastern United States=*Cynanchum angustifolium* Pers. (1805) (*Ceropegia palustris* Pursh, *Cynanchum palustre* Heller, *Seutera palustris* Vail; *Lyonia palustris* Small).
- OLIGORON** Raf. New Fl. N. Am. 4:60. 1836 [1838], *descr.* (*Acerates* Ell.); Good Book 47. 1840, *nom.*=*Acerates* Ell. (1817)=*Asclepias* Linn.
- longifolium* Raf. New Fl. l.c., *descr.* (*Asclepias longifolia* Michx.; *A. floridana* Lam.; *Acerates longifolia* Ell.); Aut. Bot. 22. 180. 1840, *nom.* Carolina to Florida and Arkansas=*Asclepias longifolia* Michx.
var. *hirsutum* Raf. New Fl. l.c., *descr.*; Aut. Bot. 180. 1840, *nom.*=? *Asclepias hirtella* (Pennell) Woods.
- tenuifolium* Raf. Il.cc., *descr.*, *nom.* Arkansas=*Asclepias longifolia* Michx.
- OTANEMA** Raf. New Fl. N. Am. 1:49. 1836, *nom.* nov. *Acerotis* Raf.; op. cit. 4:61. 1836 [1838], *descr.*; Good Book 47. 1840, *nom.*=*Acerates* Ell. (1817)=*Asclepias* Linn.
- lanceolata* Raf. New Fl. l.c., *descr.* (*Asclepias lanceolata* Ives; *A. *nutans* Muhl. Cat. 28. 1813; *A. viridiflora* Raf.); Aut. Bot. 23. 180. 1840, *nom.* New England to Kentucky=*Asclepias viridiflora* Raf. (*Acerates viridiflora* Eaton).

latifolia Raf. Il.cc., *descr.*, *nom.* Alleghany Mountains to Kentucky=praec.

var. *retusa* Raf. New Fl. l.c., *descr.*

ovata Raf. Il.cc., *descr.*, *nom.* New England to Virginia=praec.

PERIPLOCA Linn.

**americana* Raf. Aut. Bot. 183. 1840, *descr.* (*P. graeca* sensu auct. Am.). New Jersey to Carolina=*P. graeca* Linn.

**latifolia* Raf. Herb. Raf. 70. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.

#**SEPTIXIS** Raf. New Fl. N. Am. 4:63. 1836 [1838], *descr.*, subgen. *Asclepias* Linn.

#**STETHORHIZA** Raf. New Fl. N. Am. 4:63. 1836 [1838], *descr.*, subgen. *Asclepias* Linn. (Type *Asclepias tuberosa* Linn.).

VINCETOXICUM Linn.

**acuminatum* Raf. Aut. Bot. 181. 1840, *descr.* (*Gonolobus laevis* Michx.; *Cynanchum laeve* Pers.). Carolina, Florida =*Gonolobus laevis* Michx.

officinale Moench. Europe.

var. *angustifolium* Raf. op. cit. 180, *nom.*

latifolium Raf. l.c., *nom.*

triflorum Raf. l.c., *nom.*

CONVOLVULACEAE

ADAMBOE Raf. Fl. Tellur. 4:73. 1836 [1838], *descr.*=*Ipomoea* Linn.

bicolor Raf. l.c., *descr.* (*Ipomoea campanulata* Linn.; *Adamboe* Rheede, Hort. Malabar 11:115. t. 56. 1692). India=*Ipomoea campanulata* Linn. (*Rivea campanulata* House).

AMPHONE Raf. Fl. Tellur. 4:79. 1836 [1838], *descr.*=*Ipomoea* Linn.

asarifolia Raf. l.c., *descr.* (*Convolvulus asarifolius* Desr.). Senegal=*Ipomoea asarifolia* (Desr.) Roem. & Schult.

chenopodia Raf. l.c., *descr.* (*Convolvulus chenopodioides* Desr.). Hab.?

cymosa Raf. l.c., *descr.* (*Convolvulus cymosus* Desr.). Tropical Asia=Merremia umbellata (Linn.) Hall. f.

lobata Raf. l.c., *descr.* (*Ipomoea triloba* Linn.; *Convolvulus subtrilobus* Sm.). Tropical America=*Ipomoea triloba* Linn. (*I. mariannensis* Choisy).

splendens Raf. Sylva Tellur. 130. 1838, *descr.* (*Ipomoea splendens* Sims Bot. Mag. 53: t. 2628. 1826; *Lettsomia splendens* Roxb.). India=*Argyrea splendens* (Roxb.) Sweet.

**tiliaefolia* Raf. Fl. Tellur. 4:79. 1836 [1838], *descr.* (*Convolvulus tiliaefolius* "Com. Sm."). Africa=*Stictocardia tiliaefolia* (Desr.) Hall. f.

venosa Raf. l.c., *nom.* (*Convolvulus venosus* Desr.). Mascarene Islands=*Ipomoea venosa* (Desr.) Roem. & Schult.

ANTHANEMA Raf. Fl. Tellur. 4:90. 1836 [1838], *descr.*=*Cuscuta* Linn.

capitata Raf. l.c., *descr.* Kentucky, Illinois.

paradoxa Raf. l.c., *descr.* (*Cuscuta paradoxa* Raf.). Kentucky=? *C. glomerata* Choisy (1841).

verticillata Raf. l.c., *nom.* alt. *A. paradoxa* Raf. Kentucky=praec.

#**APLIMIA** Raf. Fl. Tellur. 4:71. 1836 [1838], *descr.*, subgen. provis. *Tirtalia* Raf. (Type *Convolvulus filicaulis* Vahl)=*Ipomoea* Linn.

APLOSTYLIS Raf. Fl. Tellur. 4:91. 1836 [1838], *descr.*=*Cuscuta* Linn., subgen. *Monogyna* Yuncker.

lupuliformis Raf. l.c., *nom.*, *nota* (*Cuscuta lupuliformis* Krock. Fl. Siles. 1:261. t. 36. 1787; *C. monogyna* Vahl) Europe=*Cuscuta lupuliformis* Krock., et quoad syn. Vahl, *C. monogyna* Vahl.

APOPLEUMON Raf. Fl. Tellur. 4:72. 1836 [1838], *descr.*=*Ipomoea* Linn.

bignonioides Raf. l.c., *descr.* (*Ipomoea bignonioides* Sims, Bot. Mag. 53: t. 2645. 1826). Guiana.

#**BALLELA** Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.*, subgen. *Convolvulus* Linn. (Type, *Convolvulus repens* Linn.)=*Merremia* Dennst. (1818).

repens Raf. ex Jacks*. Ind. Kew. 1:266. 1893 (*Convolvulus repens* Linn.)=*Merremia hirta* (Linn.) Merr.

BONANOX Raf. Ann. Gén. Sci. Phys. 8:272. 1821, *nom.* (*Ipomoea bona-nox* Linn.); Fl. Tellur. 4:77. 1836 [1838], *descr.*=*Calonyction* Choisy (1833).

indica Raf. Fl. Tellur. l.c., *descr.* (*Ipomoea bona-nox* Linn.; *Munda-valli* Rheede, Hort. Malabar. 11:103. t. 50. 1692 [*Ipomoea alba* Linn.])=*Calonyction album* (Linn.) House.

- muricata* Raf. l.c., *descr.* (*Convolvulus muricatus* Linn.; *Ipomoea bona-nox* sensu Ker-Gawl. Bot. Reg. 4: t. 290. 1818). India=Calonyction sp. (floribus purpureis).
orbiculata Raf. l.c., *descr.* (*Ipomoea orbicularis* Ell.). Florida=Ipomoea pes-caprae (Linn.) Sweet.
riparia Raf. l.c., *descr.* (*Ipomoea bona-nox* sensu Sims Bot. Mag. 20: t. 752. 1804). Florida, West Indies=Calonyction aculeatum (Linn.) House.
BUCHARIA Raf. Fl. Tellur. 4:84. 1836 [1838], *descr.*=Convolvulus Linn.
atlantica Raf. l.c., *descr.* (*Convolvulus suffruticosus* Desf. Fl. Atl. 1: 175. t. 48. 1798). Madeira.
maderensis Raf. l.c., *descr.* (*Convolvulus suffruticosus* Dry.; Ker-Gawl. Bot. Reg. 2: t. 133. 1816). Madeira=Convolvulus canariensis Linn.
***CALISTEGIA** Raf. Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.*, *nota*; Fl. Tellur. 4:71. 1836 [1838], *nom.* sub *Milhaniania* Raf.=Calystegia R. Br. (1810), *nom. conserv.* (*Vol-vulus* Medic., 1791).
CALYSTEGIA R. Br. (1810), *nom. conserv.* (*Vol-vulus* Medic., 1791).
mutabilis Raf. Fl. Ludovic. 46. 1817, *descr.* (*Liseron blanc à limbe bleu* Rob. Voy. Louis. 3:401. 1807). Louisiana.
†*triparia* Raf. Herb. Raf. 69. 1833, *nom.*; New Fl. N. Am. 2:29. 1836 [1837], *descr.* (*Calystegia sepium* auct. Am.). New Jersey, New York, Chesapeake Bay=Convolvulus sepium Linn. var. americanus Sims (*Calystegia sepium* R. Br.).
villosa Raf. Fl. Ludovic. 45. 1817, *descr.* (*Liseron à fleurs blanches* Rob. Voy. Louis. 3:400. 1807). Louisiana=Convolvulus sepium Linn. var. repens (Linn.) A. Gray.
CAMONEA Raf. Fl. Tellur. 4:81. 1836 [1838], *descr.*=Merremia Dennst. (1818).
bifida Raf. l.c., *descr.* (*Convolvulus bifidus* Vahl). Java=Merremia umbellata (Linn.) Hall. f.
#CAULOTULIS Raf. Fl. Tellur. 4:76. 1836 [1838], *descr.*, subgen. *Modesta* Raf. (Type *Modesta tuberculata* Raf.; *Ipomoea tuberculata* Ker-Gawl. Bot. Reg. 1: t. 86. 1816; *Convolvulus digitatus* Roxb.). India=Ipomoea Linn.
CLEIEMERA Raf. Fl. Tellur. 4:77. 1836 [1838], *descr.*=Pharbitis Choisy (1833)=Ipomoea Linn.
cuspidata Raf. op. cit. 78, *nom.* (*Convolvulus flore purpureo* Dill. Hort. Eltham. 99. t. 83. f. 96. 1732). Mexico.
guinensis Raf. l.c., *nom.* (*Convolvulus caeruleus major folio hederaceo* Dill. Hort. Eltham. 97. t. 81. f. 93. 1732). Tropical Africa.
hederacea Raf. op. cit. 77, *descr.* (*Ipomoea hederacea* Jacq. Collect 1:124. 1786; Ker-Gawl. Bot. Reg. 1: t. 85. 1816; *Ipomoea barbata* Roth; *Ipomoea nil* sensu Pursh; *Convolvulus nil* sensu Michx.). North America=Ipomoea hederacea (Linn.) Jacq.
hirsuta Raf. op. cit. 78, *descr.* (*Ipomoea nil* sensu Ell.; *Convolvulus caeruleus, hederaceo folio* Dill. Hort. Eltham 96. t. 80. f. 92. 1732). Virginia, Carolina=Ipomoea hederacea (Linn.) Jacq.
indica Raf. l.c., *nom.* (*Convolvulus nil* Linn.; Curtis Bot. Mag. 3: t. 188. 1792; *Convolvulus caeruleus, hederaceo anguloso folio* Dill. Hort. Eltham 96. t. 80. f. 91. 1732). Pantropic=Ipomoea hederacea (Linn.) Jacq.
CLEIOSTOMA Raf. Fl. Tellur. 4:80. 1836 [1838], *descr.*=Ipomoea Linn.
villosa Raf. l.c., *descr.* (*Convolvulus aggregatus* Lour.). Indo-China (Annam)=Ipomoea pes-tigridis Linn.; see Merrill, Trans. Am. Philos. Soc. II. 24(2): 327. 1935.
***CODOCHISMA** Raf. Ann. Gén. Sci. Phys. 8:271. 1821, *descr.* (Type *Convolvulus pentapetaloides* Linn.). Southern Europe and Asia Minor=Convolvulus Linn.
***CODOSIPHUS** Raf. Ann. Gén. Sci. Phys. 8:271. 1821, *descr.* (*Convolvulus* sp.)=Convolvulus Linn.
COILADENA Raf. Fl. Tellur. 2:12. 1836 [1837], *descr.*=Ipomoea Linn.
hyemalis Raf. l.c., *descr.* (*Ipomoea horsfalliae* Hook. Bot. Mag. 61: t. 3315. 1834). Africa?
CONVOLVULUS Linn.
**acutilobus* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
**capitatus* Raf. Fl. Ludovic. 46. 1817, *descr.* (*Liseron ombellifère à fleurs bleues* Rob. Voy. Louis. 3:401. 1807); M'Murtrie, Sketch. Louisv. 216. 1819, *nom.*, non Vahl. Louisiana, Kentucky=C. scabrus Raf.
**egyptius* Raf. Fl. Tellur. 4:80. 1836 [1838], *nom.* in syn. sub *Exocroa* Raf.=Convolvulus aegyptius Linn. Egypt.
**flexipes* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
griseus Raf. Atl. Jour. 1:177. 1833, *descr.*; Herb. Raf. 23. 1833, *descr.* Texas.
**lariospermus* Raf. Ann. Gén. Sci. Phys. 8:271. 1821, *nom.* sub *Lariospermum* Raf., *sphalm.*=Convolvulus lasiospermus Vis.=C. rumicifolia Choisy. India, Tropical Africa.
litalis Raf. Fl. Tellur. 4:74. 1836 [1838], *nom.* sub *Troxula* Raf., *sphalm.*=Convolvulus littoralis Linn.=Ipomoea carnosa R. Br. Tropical regions.
nervosus Raf. Fl. Ludovic. 46. 1817, *descr.* (*Liseron blanc à fond pourpre* Rob. Voy. Louis. 3:400. 1807). Louisiana.
**parvifolius* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
**scabrus* Raf. Fl. Tellur. 4:70. 1836 [1838], sub *Lacara* Raf., *nom. nov.* *Convolvulus capitatus* Raf., non Vahl. Louisiana.
**subtrilobus* Raf. l.c., *nom.* sub *Lacara* Raf. An C. sublobatus Linn. f.?
***CRESSARIA** Raf. Ann. Gén. Sci. Phys. 8:270. 1821, *nom.* *nov.* *Cressa* Linn.
CUSCUTA Linn.
acaulis Raf. Ann. Nat. Ann. Synop. 13. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
**amplectens* Raf. ex M'Murtrie, Sketch. Louisv. 215. 1819, *nom.* Kentucky.
aphylla Am. Monthly Mag. Crit. Rev. 4:40. 1818, *descr.*; Spreng. Neue Entdeck. 1:145. 1820, *descr.*, non Lour. (1790). Indiana, Kentucky, Illinois=? C. glomerata Choisy (1841).
paradoxa Raf. Ann. Nat. Ann. Synop. 13. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Indiana, Illinois, Kentucky=? Cuscuta glomerata Choisy (1841).
CYLIDIUM Raf. Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.* Quid?
***DACTYLEPIS** Raf. Fl. Tellur. 4:125. 1836 [1838], *descr.* (Type *Cuscuta [americana]* sensu Lunan, e Jamaica)=Cuscuta Linn.
***DARLUCA** Raf. New Fl. N. Am. 4:55. 1836 [1838], *descr.*; Good Book 47. 1840, non *Darluca* Raf. (1820)=? *Evolvulus* Linn.
prostrata Raf. op. cit. 56, *descr.*; Aut. Bot. 21. 1840, *nom.* Florida.
#DECALOBA Raf. Fl. Tellur. 4:76. 1836 [1838], *descr.*, subgen. *Modesta* Raf.=Ipomoea Linn.
†**DIATREMA** Raf. Herb. Raf. 80. 1833, *descr.*; Fl. Tellur. 4:72. 1836 [1838], *descr.*=Ipomoea Linn.
alba Raf. Fl. Tellur. 4:72. 1836 [1838], *descr.* "American, figured by Dillen."
muricata Raf. l.c., *nom.* [*Ipomoea muricata* Cav.]. Mexico.
purpurea Raf. l.c., *descr.* [*Convolvulus purpureus* Linn.]. Tropical America=Ipomoea purpurea (Linn.) Roth.
**trichocarpa* Raf. Herb. Raf. 80. 1833, *nom.* (*Ipomoea trichocarpa* Ell.). Alabama, Florida.
***DIATREMIS** Raf. Ann. Gén. Sci. Phys. 8:271. 1821, *descr.* (*Convolvulus nil* Linn.)=Pharbitis Choisy (1833)=Ipomoea Linn.
***DICHONDRA** Raf. Fl. Tellur. 4:88. 1836 [1838], *nom.*, *sphalm.*=Dichondra J. R. & G. Forst. (1776).
DISTIMAKE Raf. Fl. Tellur. 4:82. 1836 [1838], *descr.*=Ipomoea Linn.
glaber Raf. l.c., *descr.* (*Convolvulus glaber* Aubl. Hist. Pl. Guian. 1:138. t. 53. 1775). Guiana=Ipomoea glabra (Aubl.) Choisy.
DITEREIA Raf. Fl. Tellur. 4:84. 1836 [1838], *descr.*=Evolvulus Linn.
parviflora Raf. l.c., *descr.* (*Evolvulus latifolius* Ker-Gawl. Bot. Reg. 5: t. 401. 1819). Brazil.
DOXEMA Raf. Fl. Tellur. 4:75. 1836 [1838], *descr.*=Quamoclit Moench (1794).
sanguinea Raf. l.c., *nom.* (*Ipomoea sanguinea* Vahl; Ker-Gawl. Bot. Reg. 1: t. 9. 1815). West Indies.
EMULINA Raf. Fl. Tellur. 4:81. 1836 [1838], *descr.*=Jacquemontia Choisy (1833).
parviflora Raf. l.c., *descr.* (*Convolvulus parviflorus* Lam.). West Indies=Jacquemontia verticillata (Linn.) Urb.
ERONEMA Raf. Fl. Tellur. 4:125. 1836 [1838], *descr.*=Cuscuta Linn.

ERONEMA (continued).

robinsoni Raf. l.c., *descr.* (*Cuscuta* sp. Lunan, Hort. Jamaica. 1:265. 1814, sub *C. americana*). Jamaica=*Cuscuta americana* Linn.

EURLYOMA Raf. Fl. Tellur. 4:75. 1836 [1838], *descr.*, non D. Don (1834)=*Calonyction Choisy* (1833).

grandiflora Raf. l.c., *nom.* (*Convolvulus grandiflorus* Linn. f.). India=*Calonyction album* (Linn.) House.

latiflora Raf. l.c., *descr.* (*Convolvulus latiflorus* Desr.; *Ipomoea latiflora* Roem. & Schult.; Lindl. Bot. Reg. 11: t. 889. 1825; *I. grandiflora* sensu Andr. Bot. Repos. 6: t. 403. 1804). West Indies=*Calonyction aculeatum* (Linn.) House.

leucantha Raf. l.c., *descr.* (*Convolvulus leucanthus* Sm.; *Ipomoea leucantha* Jacq.; Scop. Del. Fl. Faun. Insubr. 2: t. 4. 1786). South America.

EVOLVULUS Linn.

cuneifolius Raf. Fl. Tellur. 4:82. 1836 [1838], *descr.* (*sphalm.* "*cuneifolius*"); New Fl. N. Am. 4:56. 1836 [1838], *descr.* New Jersey=*Stylisma pickeringii* (M. A. Curtis) A. Gray (*Breweria pickeringii* A. Gray).

EXALLOSIS Raf. Fl. Tellur. 4:83. 1836 [1838], *descr.*=*Ipomoea* Linn.

biflora Raf. l.c., *descr.* (*Ipomoea biflora* Pers.; *Convolvulus biflorus* Linn.). China=? *Ipomoea hardwickii* (Spreng.) Hemsl. (*Aniseia calycina* Choisy).

EXOCROA Raf. Fl. Tellur. 4:80. 1836 [1838], *descr.*=*Ipomoea* Linn.

egyptiaca Raf. l.c., *descr.* (*Convolvulus cairicus* Linn.; *C. aegyptius* Linn.; *Ipomoea palmata* Forsk.). Egypt=*Ipomoea cairica* (Linn.) Sweet.

#**EXOSTREPS** Raf. Tellur. 4:70. 1836 [1838], *nom.*, *nota*, subgen. *Sanilum* Raf. (Type *Convolvulus parviflorus* Lam.)=*Jacquemontia Choisy* (1833).

FRAXIMA Raf. Fl. Tellur. 4:83. 1836 [1838], *descr.*=*Ipomoea* Linn.

ebracteata Raf. l.c., *nom.* (*Convolvulus ebracteatus* Desr.). Tropical America=*Ipomoea ebracteata* (Desr.) Choisy.

mindanensis Raf. l.c., *nom.* (*Convolvulus sphaerostigma* Cav.). Mexico (haud Philippines)=*Jacquemontia hirsuta* Choisy=*J. sphaerostigma* (Cav.) Rusby.

quinquefolia Raf. l.c., *nom.* (*Convolvulus quinquefolius* Linn.)=*Ipomoea quinquefolia* Linn. Tropical America.

sagittifolia Raf. l.c., *nom.* (*Convolvulus sagittifolius* Michx.). North America=*Ipomoea sagittata* Poir.

sherardi Raf. l.c., *nom.* (*Calystegia paradoxa* Pursh). Virginia or Carolina=*Ipomoea*?

tridentata Raf. l.c., *nom.* (*Convolvulus tridentatus* Linn.). Indo-Malaysia=*Ipomoea tridentata* (Linn.) Roth.

umbellata Raf. l.c., *nom.* (*Convolvulus umbellatus* Linn.). Pantropic=*Merremia umbellata* (Linn.) Hall. f.

#**GOMPHIPUS** Raf. Fl. Tellur. 4:76. 1836 [1838], *descr.* subgen. *Modesta* Raf. (Type *Modesta setosa* Raf.; *Ipomoea setosa* Ker-Gawl. Bot. Reg. 4: t. 335. 1818). Brazil=*Calonyction Choisy* (1833).

#**GOMPHULA** Raf. Fl. Tellur. 4:77. 1836 [1838], *descr.*, subgen. *Bonanox* Raf. (*Bonanox muricata* Raf.; *Convolvulus muricatus* Linn.)=*Calonyction Choisy* (1833).

GYNOISIA Raf. Fl. Tellur. 4:75. 1836 [1838], *descr.*=*Ipomoea* Linn.

carolina Raf. l.c., *descr.* (*Convolvulus carolinus* Linn.; *Ipomoea carolina* Pursh; *I. trichocarpa* Ell.). Southeastern United States=*Ipomoea trichocarpa* Ell. (*Ipomoea commutata* Roem. & Schult).

HEMIDIA Raf. Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.*=*Ipomoea* Linn. vel *Convolvulus* Linn.

#**HEMILASIS** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.*, subgen. *Ipomoea* Linn. (Type *Ipomoea heterophylla* Ortega); New Fl. N. Am. 4:74. 1836 [1838], *nom.*, *nota*=*Ipomoea* Linn.

IDALIA Raf. Fl. Tellur. 4:76. 1836 [1838], *descr.*=*Convolvulus* Linn.

albiflora Raf. op. cit. 77, *descr.* (*Convolvulus elongatus* Willd.; Ker-Gawl. Bot. Reg. 6: t. 498. 1820). Canary Islands.

IPOMEA All.; Raf. Fl. Ludovic. 47. 1817, *nom.*; New Fl. N. Am. 4:57. 1836 [1838], *descr.*=*Ipomoea* Linn.

**avicularis* Raf. Fl. Ludovic. 47. 1817, *descr.* ("*Ipomoea hedoerifolia*" Rob. Voy. Louis. 3:402. 1807). Louisiana.

**horsfallia* Raf. Fl. Tellur. 2:12. 1836 [1837], *nom.* sub *Coiladena* Raf.=*Ipomoea horsfalliae* Hook. India.

**humilis* Raf. New Fl. N. Am. 4:57. 1836 [1838], *descr.* Southern Florida and Cuba.

IPOMOEA Linn.

avicularis Raf. ex Jacks*. Ind. Kew. 1:1223. 1893 (*Ipomoea avicularis* Raf.). Louisiana.

humilis Raf. ex Jacks*. l.c. (*Ipomoea humilis* Raf.).

ISYPUS Raf. Fl. Tellur. 4:73. 1836 [1838], *descr.*=*Ipomoea* Linn.

ochraceus Raf. l.c., *descr.* (*Convolvulus ochraceus* Lindl. Bot. Reg. 13: t. 1060. 1827). West Africa=*Ipomoea ochracea* (Lindl.) G. Don.

***KADARAS** Raf. Fl. Tellur. 4:88. 1836 [1838], *nom.* sub *Cuscutaria* Raf.=*Kadurias* Raf. op. cit. 91=*Cuscuta* Linn.

KADULA Raf. Fl. Tellur. 4:88, *nom.*, 90, *descr.*, 1836 [1838]=*Cuscuta* Linn.

corymbosa Raf. l.c. 90, *nom.* ut "*R.*" *corymbosa* (*Cuscuta corymbosa* Ruiz & Pavon, Fl. Peruv. 1:69. t. 115. 1794). Peru.

KADURIAS Raf. Fl. Tellur. 4:88, *nom.*, 91, *descr.*, 1836 [1838]=*Cuscuta* Linn.

reflexa Raf. l.c., 91, *nom.* (*Cuscuta reflexa* Roxb. Pl. Coromand. 2:3. t. 104. 1798). India=*Cuscuta reflexa* Roxb.

#**KEMOPSIS** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.* subgen. *Ipomoea* Linn. (Type, *Ipomoea hederifolia* Linn.). West Indies.

KETHOSIA Raf. Fl. Tellur. 4:78. 1836 [1838], *descr.*=*Hewittia* Wight & Arn. (1837).

involutrata Raf. l.c., *descr.* (*Convolvulus involutratatus* sensu Edwards, Bot. Reg. 4: t. 318. 1818, non Willd.). Africa, Mauritius=*Hewittia sublobata* (Linn. f.). O. Ktze. (*H. bicolor* Wight & Arn.).

KOLOFONIA Raf. Fl. Tellur. 4:73. 1836 [1838], *descr.*=*Ipomoea* Linn.

albinervia Raf. l.c., *descr.* (*Convolvulus albivenius* Lindl. Bot. Reg. 13: t. 1116. 1827). South Africa=*Ipomoea albivenia* (Lindl.) Sweet.

#**LACARA** Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.*, subgen. *Convolvulus* Linn.

capitata Raf. ex Jacks*. Ind. Kew. 2:17. 1894 (*Convolvulus capitatus* Vahl). India=*Argyrea capitata* (Vahl) Choisy.

saxatilis Raf. ex Jacks*. l.c. (*Convolvulus saxatilis* Vahl). Mediterranean Region=*C. lanuginosus* Desr.

scabra Raf. ex Jacks*. l.c. (*Convolvulus capitatus* Raf., non Vahl). Louisiana.

subtriloba Raf. ex Jacks*. l.c. (*Convolvulus "subtrilobus"*). An C. sublobatus Linn. f.?

villosa Raf. ex Jacks*. l.c. (*Convolvulus villosus* Pers.). West Indies=*Jacquemontia tamnifolia* (Linn.) Griesb.

***LARIOSPERMUM** Raf. Ann. Gén. Sci. Phys. 8:271. 1821, *descr.* (*Convolvulus "lariospermus," sphalm.*=*C. lasiospermus* Vis.). Africa=*Ipomoea* Linn.

LATRIENDA Raf. Fl. Tellur. 4:81. 1836 [1838], *descr.*=*Ipomoea* Linn.

brasiliensis Raf. l.c., *nom.* (*Convolvulus brasiliensis* Linn.). Brazil=*Ipomoea pes-caprae* (Linn.) Roth.

imperati Raf. l.c., *nom.* (*Convolvulus imperati* Vahl). Pantropic=*Ipomoea stolonifera* (Cyrill.) Poir.

multiflora Raf. l.c., *nom.* (*Convolvulus multiflorus* Mill.). Tropical America=*Merremia umbellata* (Linn.) Hall. f.

palmata Raf. l.c., *nom.* (*Convolvulus palmatus* Mill.). Tropical America=*Merremia quinquefolia* (Linn.) Hall. f.

soldanella Raf. l.c., *nom.* (*Convolvulus soldanella* Linn.). Europe=*Calystegia soldanella* (Linn.) R. Br.

LEPIMENES Raf. Fl. Tellur. 4:91. 1836 [1838], *descr.*=*Cuscuta* Linn.

epithymum Raf. l.c., *descr.* (*Cuscuta epithymum* Murr.; *C. europea* sensu Lam.). Northern Europe=*C. epithymum* Murr. (1774).

***LETSOMA** Raf. Sylva Tellur. 131. 1838, *nom.* sub *Amphione splendens* Raf.=*Lettsomia* Roxb. (1814, 1832).

LIZERON Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.* subgen. *Convolvulus* Linn. (Type *Convolvulus arvensis* Linn.)=*Convolvulus* Linn.

arvensis Raf. ex Jacks*. Ind. Kew. 2:101. 1894 (*Convolvulus arvensis* Linn.). Eurasia.

chinensis Raf. ex Jacks*. l.c. (*Convolvulus chinensis* Ker-Gawl.). China=*C. arvensis* Linn.

persicus Raf. ex Jacks*. l.c. (*Convolvulus persicus* Linn.). Asia Minor, Persia.

tricolor Raf. ex Jacks*. l.c. (*Convolvulus tricolor* Linn.). Southern Europe.

- verticillatus Raf. ex Jacks*. (*Convolvulus verticillatus* Linn.). West Indies=Jacquemontia verticillata (Linn.) Urb. (*Convolvulus micranthus* Roem. & Schult.).
- LOBAKE** Raf. Fl. Tellur. 4:81. 1836 [1838], *descr.*=Jacquemontia Choisy (1833).
- guyanensis Raf. l.c., *descr.* (*Convolvulus guianensis* Aubl.). Guiana=Jacquemontia guianensis (Aubl.) Meissn. (as *guyanensis*).
- #**LOMALIX** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.* subgen. *Ipomoea* Linn. (Type *Convolvulus oenotheroides* Linn. f.)=*Ipomoea* Linn.
- #**LOMIPTIA** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.*, subgen. *Quamoclit* Raf. (Type *Ipomoea bracteata* Cav.)=*Ipomoea* Linn.
- MELASCUS** Raf. Fl. Tellur. 4:80. 1836 [1838], *descr.*=Calonyction Choisy (1833).
- latifolius Raf. l.c., *descr.* (*Convolvulus latiflorus* Desr.). South America=Calonyction aculeatum (Linn.) House.
- #**MELASIA** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.*, subgen. *Quamoclit* Raf. (Type *Ipomoea tuberosa* Linn.)=*Operculina* S. Manso (1836).
- #**MICROLA** Raf. Fl. Tellur. 4:84. 1836 [1838], *descr.* subgen. *Thyella* Raf. (Type *Ipomoea tamnifolia* Linn.)=Jacquemontia Choisy (1833).
- MILHANIA** Raf. Fl. Tellur. 4:71. 1836 [1838], *descr.*, non Neck. (1790) (*Calystegia* R. Br.)=*Calystegia* R. Br. (1810), *nom. conserv.* (*Volulus* Medic., 1791).
- bracteata Raf. ex Jacks*. Ind. Kew. 2:236. 1894 [*Convolvulus bracteatus* Vahl]. India=Hewittia sublobata (Linn. f.) O. Kuntze.
- catesbiana Raf. ex Jacks*. l.c. (*Calystegia catesbiana* Pursh). Carolina.
- involuta Raf. ex Jacks*. l.c. [*Convolvulus involucreatus* Ker-Gawl.]. India=Hewittia sublobata (Linn. f.) O. Kuntze.
- mutabilis Raf. ex Jacks*. l.c. (*Calystegia mutabilis* Raf.). Louisiana.
- pentaphylla Raf. ex Jacks*. l.c. [*Convolvulus pentaphyllus* Linn.]. Tropical America=Ipomoea pentaphylla Jacq.
- riparia Raf. ex Jacks*. l.c. (*Calystegia riparia* Raf.). North America.
- sepium Raf. ex Jacks*. l.c. (*Calystegia sepium* R. Br.). North Temperate Zone.
- spithamea Raf. ex Jacks*. l.c. (*Calystegia spithamea* Pursh). Eastern North America=Convolvulus spithameus Linn.
- villosa Raf. ex Jacks*. l.c. (*Calystegia villosa* Raf.). Louisiana.
- ***MODECA** Raf. Fl. Tellur. 2:13. 1836 [1837], *descr.*, sub *Coiladena* Raf. (Type *Ipomoea paniculata* R. Br., *Convolvulus paniculatus* Linn.)=Modesta Raf.=Ipomoea Linn.
- MODESTA** Raf. Fl. Tellur. 4:75. 1836 [1838], *descr.*=Ipomoea Linn.
- congesta Raf. op. cit. 76, *descr.*, sub *Decaloba* Raf. (*Ipomoea platensis* Ker-Gawl. Bot. Reg. 4: t. 333. 1818). Argentina=Ipomoea digitata Linn.
- coriacea Raf. l.c., *descr.* (*Convolvulus hypocrateriformis* Desr.). India=Rivea hypocrateriformis (Desr.) Lam.
- insignis Raf. l.c., *descr.* (*Ipomoea insignis* Andr. Bot. Repos. 10: t. 636. 1811; Ker-Gawl. Bot. Reg. 1: t. 75. 1815). India=Ipomoea digitata Linn.
- macrorhiza Raf. l.c., *nom.* (*Ipomoea macrorhiza* Michx.). North America.
- mutabilis Raf. l.c., *descr.*, sub *Decaloba* (*Ipomoea mutabilis* Ker-Gawl. Bot. Reg. 1: t. 39. 1815). South America=Ipomoea acuminata (Vahl) Roem. & Schult.
- paniculata Raf. op. cit. 75, *descr.* (*Convolvulus paniculatus* Linn.; *Ipomoea paniculata* R. Br.; *I. mauritiana* Jacq.). India=Ipomoea digitata Linn.
- setosa Raf. op. cit. 76, *descr.*, sub *Gomphipus* Raf. (*Ipomoea setosa* Ker-Gawl. Bot. Reg. 4: t. 335. 1818). Brazil=Calonyction setosum (Ker-Gawl.) Hallier f.
- tuberculata Raf. l.c., *descr.*, sub *Caulotulis* Raf. (*Ipomoea tuberculata* Ker-Gawl. Bot. Reg. 2: t. 86. 1816; *Convolvulus digitatus* Roxb.). India=Ipomoea dasysperma Jacq.
- #**MUNDAVALIS** Raf. Fl. Tellur. 4:77. 1836 [1838], *descr.*, subgen. *Bonanox* Raf.=Calonyction Choisy (1833).
- ***MURUEVA** Raf. Ann. Gén. Sci. Phys. 8:270. 1821, *nom.*=Maireria Scop. (1777)=Maripa Aubl. (1775).
- NEMANTHERA** Raf. Fl. Tellur. 4:80. 1836 [1838], *descr.*=Ipomoea Linn. vel Merremia Dennst.
- bufalina Raf. l.c., *descr.* (*Convolvulus bufalinus* Lour.). Indo-China (Annam); see Merrill, Trans. Am. Philos. Soc. II. 24(2):327. 1935.
- NEMEPIS** Raf. Fl. Tellur. 4:91. 1836 [1838], *descr.*=Cuscuta Linn.
- africana Raf. l.c., *descr.* (*Cuscuta africana* Willd.; *C. americana* sensu Thunb., non Linn.). South Africa=Cuscuta africana Willd. (1798).
- americana Raf. l.c., *descr.* (*Cuscuta americana* Linn.). North America.
- ***brownei** Raf. op. cit. 125, sub. *Dactylepis* Raf., *descr.* (*Cuscuta [americana]* sensu Lunan). Jamaica=Cuscuta americana Linn.
- odorata Raf. op. cit. 91, *descr.* (*Cuscuta odorata* Ruiz & Pavon, Fl. Peruv. 1:69. t. 105. 1798). Peru.
- prolifera Raf. l.c., *descr.* (*C. americana* auct.; *C. surinamensis* Schilling). South America (Surinam)=Cuscuta americana Linn.
- NEMOSTIMA** Raf. Fl. Tellur. 4:82. 1836 [1838], *descr.*=Convolvulus Linn.
- canariensis Raf. l.c., *descr.* (*Convolvulus canariensis* Linn.). Canary Islands.
- cantabrica Raf. l.c., *descr.*, sphalm. "camtabrica" (*Convolvulus cantabrica* Linn.). Spain, Morocco.
- hystrix Raf. ex Jacks*. Ind. Kew. 2:303. 1894 (*Convolvulus hystrix* Vahl). Egypt, Arabia.
- lanata Raf. ex Jacks*. l.c. (*Convolvulus lanatus* Vahl). Persia=C. sericeus Burm. f.
- lineata Raf. ex Jacks*. l.c. (*Convolvulus lineatus* Linn.). Southern Europe.
- spicaefolia Raf. ex Jacks*. l.c. (*Convolvulus spicaefolius* Desr.). Southern Europe=C. lineatus Linn.
- NEORTHOSIS** Raf. Fl. Tellur. 4:125. 1836 [1838], *descr.*=Quamoclit Moench (1794).
- coccinea Raf. l.c., *nom.* (*Ipomoea coccinea* sensu Lunan [=I. coccinea Linn.]). Jamaica=Quamoclit coccinea (Linn.) Moench.
- tigrina Raf. l.c., *nom.* (*Ipomoea coccinea* sensu Lunan [var. fl. aurantiaci]). Jamaica=Quamoclit coccinea (Linn.) Moench.
- #**OCRIPHA** Raf. Fl. Tellur. 4:84. 1836 [1838], *descr.*, subgen. *Thyella* Raf. (Type *Convolvulus obtusifolius* Michx.)=Ipomoea Linn.
- ONISTIS** Raf. New Fl. N. Am. 4:63. 1836 [1838], *descr.* Good Book 47. 1840, *nom.* Quid?
- longifolia Raf. New Fl. l.c., *descr.* Florida.
- ORNITHOSPERMA** Raf. Fl. Ludovic. 47, *descr.*, sect. *Ipomoea* Linn.; op. cit. 149, *descr.* ut gen. 1817; Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.*; Ann. Gén. Sci. Phys. 8:272. 1821, *nom.*, *nota*; Fl. Tellur. 4:72. 1836 [1838], *descr.*=Ipomoea Linn.
- autumnalis Raf. Fl. Tellur. 4:72. 1836 [1838], *descr.* (*Ipomoea avicularis* Raf.). Louisiana=seq.
- serotina Raf. Fl. Ludovic. 149. 1817, *descr.* (*Ipomoea avicularis* Raf.). Louisiana.
- PENTAKE** Raf. Fl. Tellur. 4:90. 1836 [1838], *descr.*=Cuscuta Linn.
- chinense Raf. l.c., *nom.* (*Cuscuta chinensis* Lam.). China.
- #**PENTANTHUS** Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.*, subgen. *Convolvulus* Linn. (Type *Convolvulus pentanthus* Jacq.)=Jacquemontia Choisy (1833).
- violaceus Raf. ex Jacks*. Ind. Kew. 2:460. 1894 (*Convolvulus violaceus* Vahl). Tropical America=Jacquemontia violacea (Vahl) Choisy.
- #**PERIEXA** Raf. Fl. Tellur. 4:82. 1836 [1838], *descr.*, subgen. *Nemostima* Raf. (Type *Convolvulus lanatus* Vahl)=Convolvulus Linn.
- PERIPHAS** Raf. Fl. Tellur. 4:85. 1836 [1838], *descr.*=Convolvulus Linn.
- pannifolius Raf. l.c., *descr.* (*Convolvulus pannifolius* Ait.; Ker-Gawl. Bot. Reg. 3: t. 222. 1817). Canary Islands.
- #**PHAESTIS** Raf. Fl. Tellur. 4:71. 1836 [1838], *descr.*, subgen. *Tirtalia* Raf. (Type *Convolvulus domingensis* Desr.)=Ipomoea Linn.
- PHARBITIS** Choisy=Ipomoea Linn.
- quinquefolia Raf. Fl. Tellur. 4:81. 1836 [1838], *descr.* (*Convolvulus quinquefolius* sensu Mill.). Mexico.
- ***scamonia** Raf. Fl. Tellur. 4:72. 1836 [1838], *nom.*=Convolvulus scammonia Linn. Asia Minor.
- PLESIAGOPUS** Raf. Fl. Tellur. 4:78. 1836 [1838], *descr.*=Ipomoea Linn.

PLESIAGOPUS (*continued*).

- brasiliensis* Raf. l.c., *descr.* (*Convolvulus brasiliensis* Linn.; *Convolvulus marinus catharticus* Plumier, Descr. Pl. Am. 89. t. 104. 1693). Brazil=*Ipomoea pes-caprae* (Linn.) Roth.
- cuneifolia* Raf. l.c., *descr.* ("Ip[omea] do Lam.")=*Ipomoea pes-caprae* (Linn.) Roth.
- maritima* Raf. l.c., *descr.* (*Ipomoea maritima* sensu Ker-Gawl. Bot. Reg. 4: t. 319. 1818). Tropical seashores=*Ipomoea pes-caprae* (Linn.) Roth.
- rotundifolia* Raf. l.c., *descr.* (*Ipomoea maritima* R. Br.). Australia=*Ipomoea pes-caprae* (Linn.) Roth.
- sovana* Raf. l.c., *descr.* (*Convolvulus pes-caprae* Linn.; *Sho-vanna adamboe* Rheede, Hort. Malabar. 11:117. t. 57. 1692; *Convolvulus marinus* Rumph. Herb. Amb. 5:433. t. 159. f. 1. 1747). India, Moluccas=*Ipomoea pes-caprae* (Linn.) Roth.
- PLESILIA** Raf. Fl. Tellur. 4:83. 1836 [1838], *nom.* (*Evolvulus cuneifolius* Raf.); New Fl. N. Am. 4:56. 1836 [1838], *nom. subnud.* (*Evolvulus cuneifolius* Raf.)=*Stylisma* Raf. (1825)=*Breweria* R. Br. (1810).
- **cuneifolia* Raf. Aut. Bot. 22. 1840, *nom.* [*Evolvulus cuneifolius* Raf. Fl. Tellur. 4:82. 1838, *sphalm.* "*cuneifolius*"]. New Jersey=*Stylisma pickeringii* (Curtis) A. Gray.
- PODALETRA** Raf. Fl. Tellur. 4:79. 1836 [1838], *descr.*=*Convolvulus* Linn.
- farinosa* Raf. l.c., *descr.* (*Convolvulus farinosus* Linn.). Tropical Africa.
- ***PODOSTIMA** Raf. New Fl. N. Am. 4:63. 1836 [1838], *nom. nov.* *Stylisma* Raf.=*Breweria* R. Br. (1810).
- #**PULLIS** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.*, subgen. *Ipomoea* Linn. (Type *Ipomoea hepaticifolia* Linn.)=*Ipomoea* Linn.
- QUAMOCILITA** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.*=*Quamoclit* Moench (1794).
- bipinnata* Raf. l.c., *nom.* Hab.?
- coccinea* Raf. l.c., *nom.* (*Ipomoea coccinea* Linn.). Tropical America=*Quamoclit coccinea* (Linn.) Moench.
- cordata* Raf. l.c., *nom.* Hab.?
- denticulata* Raf. l.c., *nom.* (*Ipomoea denticulata* R. Br.). Indo-Malaysia=*Merremia* sp.
- hybrida* Raf. l.c., *nom.* Hab.?
- lacunosa* Raf. l.c., *nom.* (*Ipomoea lacunosa* Linn.). North America.
- litoralis* Raf. l.c., *nom.* (*Ipomoea littoralis* Blume). Indo-Malaysia=*Ipomoea gracilis* R. Br.
- multifida* Raf. New Fl. N. Am. 4:57. 1836 [1838], *descr.*, *cult.*
- **pinnata* Raf. l.c., *nom.* [*Quamoclit pennata* Boj.]. Tropical America.
- rubra* Raf. Fl. Tellur. 4:74. 1836 [1838], *nom.* (*Ipomoea rubra* Murr.). North America=*Gilia coronopifolia* Pers. (Polemoniaceae).
- solanifolia* Raf. l.c., *nom.* (*Ipomoea solanifolia* Linn.). West Indies.
- ***QUAMOCTITA** Raf. New Fl. N. Am. 4:57. 1836 [1838], *nom.*, *sphalm.*=*Quamoclit* Raf.=*Quamoclit* Moench (1794).
- RHODOXYLON** Raf. Fl. Tellur. 4:79. 1836 [1838], *descr.*=*Convolvulus* Linn.
- floridum* Raf. op. cit. 80, *nom.* (*Convolvulus floridus* Linn.). Teneriffe.
- scoparium* Raf. l.c., *nom.* (*Convolvulus scoparius* Linn.). Teneriffe.
- SAMUDRA** Raf. Fl. Tellur. 4:72. 1836 [1838], *descr.*=*Argyreia* Lour. (1790).
- speciosa* Raf. l.c., *descr.* (*Convolvulus speciosus* Willd.; *Ipomoea speciosa* Pers.; *Convolvulus nervosus* Burm. f. Fl. Ind. 48. t. 20. f. 1. 1768; *Samudra-Stjogam* Rheede Hort. Malabar. 11:125. t. 61. 1692; *Ipomoea speciosa* Pers.; Hook. Bot. Mag. 51. t. 2446. 1824). India=*Argyreia nervosa* (Burm. f.) Boj.
- SANILUM** Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.*=*Hewittia* Wight & Arn. (1837).
- bicolor* Raf. l.c., *nom.* (*Convolvulus bicolor* Vahl). India=*Hewittia sublobata* (Linn. f.) O. Kuntze.
- bracteatum* Raf. l.c., *nom.* (*Convolvulus bracteatus* Vahl). India=*Hewittia sublobata* (Linn. f.) O. Kuntze.
- copticum* Raf. l.c., *nom.* (*Convolvulus copticus* Linn.). Tropical Asia and Africa=*Ipomoea coptica* (Linn.) Roth. (*I. dissecta* Willd.).

- humile* Raf. l.c., *nom.* (*Convolvulus humilis* Jacq.). Mediterranean region.
- parviflorum* Raf. ex Jacks*. Ind. Kew. 2:798. 1895 (*Convolvulus parviflorus* Vahl). Tropical Asia and Africa.
- #**SCADIARA** Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.*, subgen. *Convolvulus* Linn. (Type *Convolvulus ruber* Vahl)=*Calystegia* R. Br. (1810), *nom. conserv.* (*Volvrulus* Medic., 1791).
- ***SCAMMONEA** Raf. Ann. Gén. Sci. Phys. 8:271. 1821, *descr.* [*Convolvulus scammonia* Linn.]=*Convolvulus* Linn.
- #**SCAMONIA** Raf. Fl. Tellur. 4:72. 1836 [1838], *descr.*, subgen. *Pharbitis* Choisy (Type *Pharbitis scamonia* Raf. [*Convolvulus scammonia* Linn.]=*Convolvulus* Linn.
- #**SCIADIARA** Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.* (Types *Convolvulus cneorum* Linn., *C. ruber* Vahl)=*Convolvulus* Linn.
- #**SERICOSPERMA** Raf. Fl. Tellur. 4:74. 1836 [1838], *descr.*, subgen. *Ipomoea* Linn. (Type *Convolvulus sericeus* Burm. f.)=*Convolvulus* Linn.
- STOMADENA** Raf. Fl. Tellur. 2:12. 1836 [1837], *descr.*=*Ipomoea* Linn.
- violacea* Raf. l.c., *descr.* (*Ipomoea aitonii* Lindl. Bot. Reg. 21: t. 1794. 1835). Florida.
- †**STYLISMA** Raf. Am. Monthly Mag. Crit. Rev. 3:101. 1818, *descr.* (*Convolvulus tenellus* Lam.); op. cit. 4:191. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.* (*Convolvulus tenellus* Lam.); Ann. Gén. Sci. Phys. 8:270, *nom.*, 272, *descr.*, 1821 (*Convolvulus tenellus* Lam.); Neogen. 2. 1825, *descr.* (*Convolvulus tenellus* Lam.; *C. aquaticus* Walt.); New Fl. N. Am. 4:54. 1836 [1838], *descr.*; Fl. Tellur. 4:83. 1836 [1838], *descr.* Good Book 47. 1840, *nom.*=*Breweria* R. Br. (1810).
- aquatica* Raf. Fl. Tellur. 4:83. 1836 [1838], *nom.* (*Convolvulus aquaticus* Walt.). Southeastern United States=*Breweria aquatica* (Walt.) A. Gray (*Stylisma aquatica* Chapm.).
- elliptica* Raf. New Fl. N. Am. 4:55. 1836 [1838], *descr.*; Aut. Bot. 22. 1840, *nom.* Georgia, Alabama.
- heterophylla* Raf. New Fl. N. Am. 4:54. 1836 [1838], *descr.*; Aut. Bot. 22. 1840, *nom.* Georgia, Florida.
- peduncularis* Raf. op. cit. 55, *descr.*; Aut. Bot. l.c., *nom.* Alabama, Florida.
- sherardi* Raf. New Fl. N. Am. 4:55. 1836 [1838], *nom.* (*Convolvulus sherardi* Pursh); Fl. Tellur. 4:83. 1836 [1838], *nom.* (*Convolvulus sherardi* Pursh). Carolina=*Breweria humistrata* (Walt.) A. Gray (*Stylisma humistrata* Chapm.; *Evolvulus* ? *sherardi* Choisy).
- **trichosanthes* Raf. New Fl. N. Am. l.c., *nom.* sub *S. peduncularis* Raf. (*Convolvulus trichosanthes* Michx.). Southeastern United States=*Breweria humistrata* (Walt.) A. Gray (*Stylisma humistrata* Chapm.).
- †*tenella* Raf. Herb. Raf. 48. 1833, *nom.* (*Convolvulus tenellus* Lam.); Fl. Tellur. 4:83. 1836 [1838], *nom.* (*Convolvulus tenellus* Lam.). Southeastern United States=prae.
- SYMETHUS** Raf. Fl. Tellur. 4:83. 1836 [1838], *descr.*=*Convolvulus* Linn.
- siculus* Raf. l.c., *descr.* (*Convolvulus siculus* Linn.; Ker-Gawl. Bot. Reg. 6: t. 445. 1820). Sicily.
- #**TALANELIS** Raf. Fl. Tellur. 4:70. 1836 [1838], *descr.*, subgen. *Convolvulus* Linn.=*Aniseia* Choisy (1833).
- medium* Raf. ex Jacks*. Ind. Kew. 2:1032. 1895 (*Convolvulus medium* Linn.). Indo-Malaysia=*Aniseia medium* (Linn.) Choisy.
- TEREIETRA** Raf. Fl. Tellur. 4:124. 1836 [1838], *descr.*=*Calonyction* Choisy (1833).
- violacea* Raf. op. cit. 125, *nom.* (*Ipomoea violacea* sensu Lunan). Jamaica=*Calonyction tuba* (Schlecht.) G. Don.
- THYELLA** Raf. Fl. Tellur. 4:84. 1836 [1838], *descr.*=*Ipomoea* Linn.
- obtusiloba* Raf. l.c., *descr.* (*Convolvulus obtusilobus* Michx.). Southeastern United States=*Ipomoea stolonifera* (Cyrill.) Poir.
- tamnifolia* Raf. l.c., *descr.* (*Ipomoea tamnifolia* Linn.). Southeastern United States and tropical America=*Jacquemontia tamnifolia* (Linn.) Griseb.
- TIRTALIA** Raf. Fl. Tellur. 4:71. 1836 [1838], *descr.*=*Ipomoea* Linn.
- anceps* Raf. ex Jacks*. Ind. Kew. 2:1083. 1893 (*Convolvulus anceps* Linn.)=*Operculina turpethum* (Linn.) S. Manso. Pantropic.

- angustifolia** Raf. Fl. Tellur. l.c., nom. (*Convolvulus angustifolius* Desr.) = *Merremia hastata* (Desr.) Hall. f. Old World tropics.
- dissecta** Raf. ex Jacks*. l.c. (*Convolvulus dissectus* Jacq.) = *Ipomoea sinuata* Ortega. Tropical America.
- domingensis** Raf. ex Jacks*. l.c. (*Convolvulus domingensis* Desr.) = *Rivea corymbosa* (Linn.) Hall. f. West Indies.
- emarginata** Raf. Fl. Tellur. l.c., nom. (*Convolvulus emarginatus* Vahl) = *Ipomoea martinicensis* Mey. = *Aniseia martinicensis* (Jacq.) Choisy.
- filicaulis** Raf. ex Jacks*. l.c. (*Convolvulus filicaulis* Vahl) = *Merremia hastata* (Desr.) Hall. f. Old World tropics.
- gemella** Raf. ex Jacks*. l.c. (*Convolvulus gemellus* Burm. f.) = *Merremia gemella* (Burm. f.) Hall. f. Indo-Malaysia.
- hispida** Raf. ex Jacks*. l.c. (*Convolvulus hispidus* Vahl) = *Ipomoea hispida* (Vahl) Roem. & Schult. (*I. eriocarpa* R. Br.). Indo-Malaysia.
- macrorrhiza** Raf. ex Jacks*. l.c. (*Convolvulus macrorrhizus* Linn.). West Indies = *Ipomoea furcensis* Urb. (1902) (*Ipomoea macrorrhizus* R. & S., non *I. macrorrhiza* Michx., 1807).
- malabarica** Raf. ex Jacks*. l.c. (*Convolvulus malabaricus* Linn.) = *Argyreia malabarica* (Linn.) Choisy. India.
- maxima** Raf. Fl. Tellur. l.c., nom. (*Convolvulus maximus* Linn. f.) = *Ipomoea sepiaria* Koen. Tropical Asia.
- pandurata** Raf. ex Jacks*. l.c. (*Convolvulus panduratus* Linn.) = *Ipomoea pandurata* (Linn.) Mey. Tropical America.
- quinquefolia** Raf. ex Jacks*. l.c. (*Convolvulus quinquelobus* Vahl). Egypt, Asia = *Ipomoea cairica* (Linn.) Sweet.
- sibirica** Raf. Fl. Tellur. l.c., nom. (*Convolvulus sibiricus* Linn.) = *Ipomoea sibirica* (Linn.) Pers. Siberia.
- striata** Raf. l.c., nom. (*Convolvulus striatus* Vahl) = *Ipomoea sepiaria* Koen. Tropical Asia.
- triflora** Raf. ex Jacks*. l.c. (*Convolvulus triflorus* Vahl) = *Ipomoea sepiaria* Koen. Tropical Asia.
- triquetra** Raf. ex Jacks*. l.c. (*Convolvulus triquetrus* Vell.) = *Ipomoea batatoides* Choisy. Brazil.
- umbellata** Raf. ex Jacks*. l.c. (*Convolvulus umbellatus* Linn.) = *Merremia umbellata* (Linn.) Hall. f. Pantropic.
- vitifolia** Raf. ex Jacks*. l.c. (*Convolvulus vitifolius* Linn.) = *Merremia vitifolia* (Linn.) Hall. f. Indo-Malaysia.
- TREMASPERMA** Raf. Fl. Tellur. 4:124. 1836 [1838], descr. = *Calonyction* Choisy (1833).
- bonanox** Raf. l.c., descr. (*Ipomoea bona-nox* sensu Lunan). Jamaica = *Calonyction aculeatum* (Linn.) House.
- #TRICHIMA** Raf. Fl. Tellur. 4:82. 1836 [1838], descr., subgen. *Nemostima* Raf. (Type *Convolvulus hystrix* Vahl) = *Convolvulus* Linn.
- #TROXULA** Raf. Fl. Tellur. 4:74. 1836 [1838], descr., subgen. *Quamoclitia* Raf. (Type *Convolvulus literalis* Raf. sphalm. = *C. littoralis* Linn.) = *Ipomoea* Linn.
- #TULOTROPIS** Raf. Fl. Tellur. 4:74. 1836 [1838], descr., subgen. *Quamoclitia* Raf. (Type *Ipomoea verrucosa* Ortega) = *Ipomoea* Linn.
- TURBINA** Raf. Fl. Tellur. 4:81. 1836 [1838], descr. = *Rivea* Choisy (1833).
- corymbosa** Raf. l.c., nom. (*Convolvulus corymbosus* Linn.). Tropical America = *Rivea corymbosa* (Linn.) Hall. f. (*Ipomoea sidaefolia* Choisy; *I. antillana* Millsp.; *I. corymbosa* Roth; *I. burmanni* Choisy; *I. domingensis* House; *Convolvulus domingensis* Desr.; *C. sidaefolius* H.B.K.).
- *TURPETHUM** Raf. Fl. Tellur. 4:71. 1836 [1838], descr. = *Operculina* Silva Manso (1836).
- *australe** Raf. l.c., descr. (*Ipomoea turpethum* R. Br.). Australia, Tahiti = *Operculina turpethum* (Linn.) Silva Manso.
- *indicum** Raf. l.c., descr. *Convolvulus indicus alatus maximus* Herm. Hort. Lugd. Bat. Cat. 177. t. 179. 1687; *Ipomoea turpethum* R. Br.; Ker-Gawl. Bot. Reg. 4: t. 279. 1818). India, Ceylon = *Operculina turpethum* (Linn.) Silva Manso.
- TURPITHUM** Raf. ex Jacks*. Ind. Kew. 2:1138. 1895 = *Turpethum* Raf. (1838) = *Operculina* Silva Manso (1836).
- australe** Raf. ex Jacks*. l.c. = *Turpethum australe* Raf. = *Operculina turpethum* (Linn.) Silva Manso.
- indicum** Raf. ex Jacks*. l.c. = *Turpethum indicum* Raf. = *Operculina turpethum* (Linn.) Silva Manso.

POLEMONIACEAE

- BATANTHES** Raf. Atl. Jour. 1:145. 1832, descr. = *Gilia* R. & P. **agregata** Raf. l.c., nom. (*Cantua aggregata* Pursh). Northwestern United States = *Gilia aggregata* (Pursh) Spreng.

- longiflora** Raf. l.c., nom. (*Cantua longiflora* Torr.). Western United States = *Gilia longiflora* (Torr.) G. Don.
- pungens** Raf. l.c., nom. (*Cantua pungens* Torr.). Western United States = *Gilia pungens* (Torr.) Benth. (*Leptodactylon pungens* Nutt.).
- BRICKELLIA** Raf. Med. Repos. II. 5:353. 1808, nom. nov. *Ipomopsis* Michx. (sphalm. "*Sponcopsis*" Raf.); iter. Jour. Bot. (Paris) 2:172. 1809, nom. (sphalm. "*Spogopsis*" Raf.); Am. Monthly Mag. Crit. Rev. 4:191. 1819, nom. (*Ipomopsis* Michx.; *Ipomeria* Nutt.); Jour. Phys. Chim. Hist. Nat. 89:258. 1819 = *Gilia* Ruiz & Pavon (1794) (*Ipomopsis* Michx.; *Ipomeria* Nutt.).
- DUPRATZIA** Raf. Fl. Ludovic. 54. 1817, descr. = ? *Phlox* Linn.
- scoparia** Raf. l.c., descr. (*Balayeuse* Rob. Voy. Louis. 3:420. 1807). Louisiana.
- PHLOX** Linn.
- *adpressa** Raf. Herb. Raf. 62. 1833, nom. Kentucky or Illinois.
- amplexicaulis** Raf. Fl. Ludovic. 36. 1817, descr. (*Manulea* Rob. Voy. Louis. 3:379. 1807). Louisiana.
- *brevifolia** Raf. Herb. Raf. 62. 1833, nom. Kentucky or Illinois.
- *glomerata** Raf. l.c., 62, nom. Kentucky or Illinois.
- hybrida** Raf. Med. Repos. II. 5:353. 1808, nom.; Jour. Bot. (Paris) 2:173. 1809, nom. Central Atlantic United States.
- *leiophylla** Raf. Herb. Raf. 62. 1833, nom. Kentucky or Illinois.
- *levigata** Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, nom. Kentucky.
- montana** Raf. Med. Repos. II. 5:353. 1808, nom.; Jour. Bot. 2:173. 1809, nom. Central Atlantic United States.
- *rugosa** Raf. l.c., nom. Kentucky or Illinois.
- *stenophylla** Raf. l.c., nom. Kentucky or Illinois.
- uniflora** Raf. Fl. Ludovic. 47. 1817, descr. (*Phlox* 2, Rob. Voy. Louis. 3:404. 1807). Louisiana.
- POLEMONIUM** Linn.
- quadriflorum** Raf. Atl. Jour. 1:177. 1833, descr.; Herb. Raf. 22. 1833, descr. Texas = *P. reptans* Linn.
- *SPOGOPSIS** Raf. Jour. Bot. (Paris) 2:172. 1809, nom., sphalm. sub *Brickellia* Raf. = *Ipomopsis* Michx. (1803) = *Gilia* Ruiz & Pavon (1794).
- *SPONCOPSIS** Raf. Med. Repos. II. 5:353. 1808, nom., sphalm. sub *Brickellia* Raf. = praec.

HYDROPHYLLACEAE

- ASCLEIA** Raf. Sylva Tellur. 53. 1838, descr. (*Johnsonia* Necker, 1790) = *Hydrolea* Linn. (1763), nom. conserv. (Nama Linn., 1753, non Linn. 1759).
- mexicana** Raf. l.c., descr. (*Lycium capsulare* Linn.). Mexico = *Hydrolea capsularis* (Linn.) Druce (*H. cervantesii* Brand).
- CAPNOREA** Raf. Fl. Tellur. 3:74. 1836 [1837], descr. = *Hesperochiron* S. Wats. (1871), nom. conserv. (*Capnorea* Raf., 1837).
- nana** Raf. op. cit. 75, descr. (*Nicotiana nana* Lindl. Bot. Reg. 10: t. 833. 1824). Rocky Mountains or Oregon = *Hesperochiron nanus* (Lindl.) Greene.⁸⁰
- COHIBA** Raf. Fl. Tellur. 3:75. 1836 [1837], descr. = *Wigandia* H.B.K. (1818).
- urens** Raf. l.c., descr. (*Nicotiana urens* Linn.). West Indies = *Wigandia pruritiva* Spreng. 1825 (*Wigandia reflexa* Brand, 1913; *W. urens* Urb. 1919, non Choisy 1833).
- DECEMIUM** Raf. Fl. Ludovic. 34. 1817, nom., nota sub *Hydrophyllum* ? *trilobum* Raf.; Am. Monthly Mag. Crit. Rev. 4:207. 1819, nom.; Med. Fl. 2:215. 1830, nom., nota = *Hydrophyllum* Linn.
- hirtum** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, nom. (*Hydrophyllum*, auct.); Med. Fl. 2:215. 1830, nom., nota (*Hydrophyllum* auct.). Southeastern to Central United States = *Hydrophyllum appendiculatum* Michx. (*Decemium appendiculatum* Brand, 1913; Small, 1933).
- †ENDIPLUS** Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, descr.; op. cit. 4:191, 207. 1819, nom.; Jour. Phys. Chim. Hist. Nat. 89:99. 1819, descr.; Isis von Oken 1820, 1: Lit. Anz. 238. 1820, descr. = *Phacelia* Juss. (1789).

⁸⁰ See Brand, Pflanzenreich 59 (IV. 251):168. 1913 "*H. nanus* (Lindl.) Greene . . . se non generi *Nicotiana*, at certe *Solanaceis* attribuenda est." Rydberg, Fl. Rocky Mts. 709. 1933, accepts it as *Capnorea nana* (Lindl.) Raf. of the *Hydrophyllaceae*. Idaho, Washington, Oregon.

- †**ENDIPLUS** (*continued*).
bifidus Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *descr.* Pennsylvania=*Phacelia bipinnatifida* Michx.
phaceloides Raf. Jour. Phys. Chim. Hist. Nat. 89:99. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 238. 1820, *descr.* Pennsylvania (near Pittsburgh)=*Phacelia bipinnatifida* Michx.
***EUCODON** Raf. Fl. Tellur. 4:88. 1836 [1838], *nom. nov.* *Codon* Linn.
HETERYTA Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*=*Phacelia* Juss. (1789).
polemonioides Raf. Il.cc., *nom.* (*Polemonium dubium* Linn.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* North America=*Phacelia dubia* (Linn.) Trel. (*P. parviflora* Pursh).
***HYDROLA** Raf. Aut. Bot. 34. 1840, *nom.*=*seq.*
**caroliniana* Raf. l.c., *nom.*=*Hydrolea caroliniana* Michx. Eastern North America.
HYDROLEA Linn. (1763), *nom. conserv.* (*Nama* Linn., 1753, non Linn. 1759).
latifolia Raf. Atl. Jour. 1:146. 1832, *nom.* (*H. spinosa* sensu Torr. Ann. Lyc. Nat. Hist. N. Y. 2:223. 1827, *nom.*, *nota*). Canadian River? Prob.=*H. ovata* Nutt. (1833).
ovatifolia Raf. New Fl. N. Am. 4:64. 1836 [1838], *descr.*; Aut. Bot. 34. 1840, *nom.* Arkansas=*H. ovata* Nutt. (1833).
paniculata Raf. Il.cc., *descr.*, *nom.* Arkansas=*Hydrolea quadrivalvis* Walt.
**uniflora* Raf. Aut. Bot. 34. 1840, *descr.* Louisiana (*Hydrolea affinis* A. Gray, 1867); see Fernald, *Rhodora* 46:56. 1944.
verticillata Raf. ex Jacks*. Ind. Kew. 1:1185. 1893 (*Hydrolia verticillata* Raf.). Louisiana=? *Hydrolea ovata* Nutt.
HYDROLIA Thouars=*Hydrolea* Linn.
**verticillata* Raf. Fl. Ludovic. 51. 1817, *descr.* (*Apocinée épineuse* Rob. Voy. Louis. 3:411. 1807). Louisiana=? *Hydrolea ovata* Nutt. (1833).
***HYDROPHYLUM** Raf. Herb. Raf. 60. 1833, *nom.*=*Hydrophyllum* Linn.
**maculatum* Raf. l.c., *nom.* Kentucky or Illinois.
**quinatum* Raf. op. cit. 80. 1833, *nom.* Kentucky or Illinois.
HYDROPHYLLUM Linn.
trilobum Raf. Fl. Ludovic. 33. 1817, *descr.* (*Mouron 1* Rob. Voy. Louis. 3:376. 1807). Louisiana=*Hydrophyllum appendiculatum* Michx. (*Decimum appendiculatum* Brand, 1913; Small, 1933).
PHACELIA Juss.
**ciliata* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
***STERISIA** Raf. Fl. Tellur. 4:88. 1836 [1838], *nom.* sub. *Cuscutaria* Raf. [*Steris* Linn.]=*Hydrolea* Linn.
STEOGOTIA sensu Raf. Fl. Tellur. 4:70. 1836 [1838], non Neck. (1790)=*Phacelia* Juss. (1789).
platycarpus Raf. ex Jacks*. Ind. Kew. 2:996. 1895 (*Convolvulus platycarpus* Cav.). Mexico=*Phacelia platycarpa* (Cav.) Spreng.

BORAGINACEAE

- ACNADENA** Raf. Sylva Tellur. 41. 1838, *descr.*=*Cordia* Linn. elliptica Raf. l.c., *descr.* (*Cordia elliptica* Sw.). West Indies.
ANISANTHERA Raf. Fl. Tellur. 3:80. 1836 [1837], *descr.* (non *Anisanthera* Raf. op. cit. 2:60. 1836 [1837])=*Caccinia* Savi (1832).
ciliata Raf. l.c., *descr.* (*Borrigo macranthera* Soland. ex Russell, Nat. Hist. Aleppo, ed. 2, 2:246. 1794). Syria=*Caccinia macranthera* (Soland.) Brand (*C. russellii* Boiss.).
ARGUZIA [Amm.] Steud. Nomencl. 68. 1821, *nom.*; Raf. Sylva Tellur. 167. 1838, *descr.*=*Messerschmidia* Linn.; see Johnst. Jour. Arnold Arb. 16:161. 1935.
repens Raf. l.c., *nom.* (*Messerschmidia arguzia* Linn.). Siberia=*Messerschmidia sibirica* Linn. (*Tournefortia sibirica* Linn.).
ARGYREXIAS Raf. Fl. Tellur. 4:86. 1836 [1838], *descr.*=*Echium* Linn.
candicans Raf. l.c., *descr.* (*Echium candicans* Linn.; Ker-Gawl. Bot. Reg. 1: t. 44. 1815). Madeira.
BATSCHIA J. F. Gmelin=*Lithospermum* Linn.
albiflora Raf. New Fl. N. Am. 4:19. 1836 [1838], *descr.* Arkansas River=*Euploca albiflora* (Raf.) Johnst. (*Heliotropium convolvulaceum* (Nutt.) Gray).
BORELLIA Neck.=*Cordia* Linn.
aspera Raf. Raf. Sylva Tellur. 41. 1838, *descr.* (*Cordia tetrandra* Aubl.). Guiana.

- BOURRERIA** P. Browne.
baccata Raf. Sylva Tellur. 42. 1838, *nom.* (*Ehretia bourreria* Linn.). West Indies=*Bourreria succulenta* Jacq.
CARIPHEA Raf. Sylva Tellur. 39. 1838, *descr.*=*Cordia* Linn. dentata Raf. l.c., *nom.* India (*Cordia monoica* Roxb.).
CATONIA Raf. Fl. Tellur. 2:36. 1836 [1837], *descr.*, non P. Browne (1756), nec Moench. (1794)=*Cordia* Linn.
lantanooides Raf. l.c., *descr.* (*Varronia monosperma* Jacq.). Venezuela=*Cordia polycephala* (Lam.) Johnst.
CHILOCHUM Raf. Anal. Nat. Tabl. Univ. 186. 1815, *nom.* nov. *Echiochilon* Desf.; Ann. Gén. Sci. Phys. 8:269. 1821, *nom.* (*Echiochilon* Desf.)=*Echiochilon* Desv. (1800).
COLANTHERA Raf. Sylva Tellur. 38. 1838, *descr.*=*Cordia* Linn.
rotundifolia Raf. l.c., *descr.* (*Cordia rotundifolia* Ruiz & Pavon, Fl. Peruv. 2:24. t. 148. 1799) Peru=*Cordia lutea* Lam.
COLOCOCCA Raf. Sylva Tellur. 40. 1838, *descr.*=*Cordia* Linn. macrophylla Raf. l.c., *descr.* (*Colococcus platyphyllos* [major] P. Br.; *Cordia macrophylla* Linn.) Jamaica.
**platyphyllos* Raf. l.c., *nom.* in syn. [*Colococcus platyphyllos major* P. Br.]. Jamaica=*Cordia macrophylla* Linn.
CORDIA Linn.
egyptiaca Raf. Sylva Tellur. 37. 1838, *descr.* Egypt=*Cordia myxa* Linn.
**officinalis* Raf. op. cit. 38, *descr.* (*Cordia myxa* Linn. var. *officinalis* Lam. [*C. officinalis* Lam.]). Arabia, East Indies=*C. myxa* Linn.
**toquera* Raf. Sylva Tellur. 40. 1838, *nom.* sub *Toquera* Raf.=*Cordia toqueve* Aubl. Guiana.
CYNOGLOSSUM Linn.
**sericeum* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
CYPHORIMA Raf. Am. Monthly Mag. Crit. Rev. 4:191, *nom.*, *nota*, 207, *nom.*, 357, *descr.* 1819 (*Lithospermum latifolium* Michx.); Jour. Phys. Chim. Hist. Nat. 89:98. 1819, *descr.* (*Lithospermum latifolium* Michx.); Isis von Oken 1820, 1: Lit. Anz. 238. 1820, *descr.*; New Fl. N. Am. 4:19. 1836 [1838], *nom.*, *nota*=*Lithospermum* Linn.
decumbens Raf. ex Jacks*. Ind. Kew. 1:701. 1893 (*Batschia decumbens* Nutt.). Eastern North America=*Lithospermum incisum* Lehm.
latifolia Raf. ex Jacks*. l.c. (*Lithospermum latifolium* Michx.). Eastern North America.
longiflora Raf. ex Jacks*. l.c. (*Batschia longiflora* Pursh). Eastern North America=*Lithospermum incisum* Lehm.
lutea Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* (*Lithospermum latifolium* auctt.). Kentucky=*Lithospermum latifolium* Michx.; see Fernald, *Rhodora* 46:496. 1944.
***DASICEPHALA** Raf. Sylva Tellur. 43. 1838, *nom.* sub *Piloisia* Raf.=*Dasycephala* H.B.K. (1818), ut sect. *Cordia* Linn.=*Cordia* Linn.
DESMOPHYLA Raf. Sylva Tellur. 43. 1838, *descr.*=*Ehretia* Linn.
aliena Raf. l.c., *descr.* (*Ehretia fasciculata* H.B.K.). Venezuela.
DIALION Raf. Sylva Tellur. 89. 1838, *descr.*=*Heliotropium* Linn.
undulatum Raf. l.c., *nom.* (*Heliotropium undulatum* Vahl, *Lithospermum hispidum* Forsk.). Egypt=*Heliotropium undulatum* Vahl.
ECHIMUM Linn.
**ferox* Raf. Fl. Tellur. 4:86. 1836 [1838], *nom.* sub. *Oplexion ferox* Raf.=*Echium ferocissimum* Andr.=*Lobostemon argenteus* (Berg.) Buek. South Africa.
**glaucom* Raf. l.c., *nom.*=*E. glaucophyllum* Jacq.=*Lobostemon glaucophyllus* (Jacq.) Buek. South Africa.
ECTEMIS Raf. Sylva Tellur. 39. 1838, *descr.*=*Cordia* Linn.
lutea Raf. l.c., *descr.* (*Cordia lutea* Lam.). Peru.
ELIOPIA Raf. Sylva Tellur. 90. 1838, *descr.*=*Heliotropium* Linn.
riparia Raf. l.c., *descr.* (*Heliotropium indicum* auct. Am.). Eastern North America=*Heliotropium indicum* Linn.
serrata Raf. l.c., *descr.* (*Heliotropium indicum* sensu Sw.). West Indies, Tropical America=*Heliotropium indicum* Linn.
FIRENSIA Scop.; Raf. Sylva Tellur. 39. 1838, *descr.*=*Cordia* Linn.
fusca Raf. op. cit. 40, *descr.* (*Cordia collococca* Linn.). West Indies.

- hirsuta* Raf. l.c., *descr.* (*Cordia hirsuta* Willd.). Guiana = *Cordia nodosa* Lam.
- lutea* Raf. l.c., *descr.* (*Cordia tetraphylla* Aubl.). Guiana; see Johnst. Jour. Arnold Arb. 16:44. 1935.
- GERASCANTHUS** P. Browne; Raf. Sylva Tellur. 40. 1838, *descr.* = *Cordia* Linn.
- scabra* Raf. l.c., *descr.* (*Cordia gerascanthus* Linn.). Jamaica = *Cordia gerascanthus* Linn. (P. Browne, Hist. Jamaic. 170. t. 19. f. 3. 1756).
- HELIOTROPIMUM** Linn.
- **angustifolium* Raf. Herb. Raf. 79. 1833, *nom. nov.* *H. curasavicum* Linn. Florida or Alabama.
- **baccatum* Raf. Sylva Tellur. 89. 1838, *nom. sub Peristima bicolor* Raf., *sphalm.* = *H. bacciferum* Forsk. Arabia.
- europeum* Linn. var. *odoratum* Raf. Chloris Aetn. 5. 1815, *nom.* Sicily.
- ISOPLESION** Raf. Fl. Tellur. 4:86. 1836 [1838], *descr.* = *Echium* Linn.
- giganteum* Raf. l.c., *nom.* (*Echium giganteum* Linn. f.). Teneriffe.
- italicum* Raf. l.c., *nom.* (*Echium italicum* Linn.). Mediterranean region.
- pyrenaicum* Raf. l.c., *nom.* (*Echium pyrenaicum* Linn.). Southern Europe.
- rubrum* Raf. l.c., *nom.* (*Echium rubrum* Jacq.). Southern Europe.
- ISORIUM** Raf. Fl. Tellur. 2:61. 1836 [1837], *descr.*; op. cit. 4:85. 1836 [1838], *nom.*, *nota* = *Lobostemon* Lehm. (1830).
- formosum* Raf. l.c., *descr.* (*Echium formosum* Pers.; *E. grandiflorum* Andr. Bot. Rep. 1: t. 20. 1798). South Africa = *Lobostemon grandiflorus* (Andr.) Levyns.
- LAREPHES** Raf. Fl. Tellur. 4:86. 1836 [1838], *descr.* = *Echium* Linn.
- parviflorum* Raf. l.c., *descr.* (*Echium parviflorum* Moench). North Africa = *Echium calycinum* Viv.
- LITHOSPERMUM** Linn.
- ciliatum* Raf. New Fl. N. Am. 4:18. 1836 [1838], *descr.*, non Forsk. (1775). Arkansas (Red River) and Texas.
- cuspidatum* Raf. l.c., *descr.* Alabama, Georgia = ? *Onosmodium virginianum* (Linn.) A. DC.
- floridanum* Raf. l.c., *descr.* Florida = *Heliotropium polyphyllum* Lehm.
- gracile* Raf. op. cit. 17, *descr.* Alabama, Arkansas, Texas = *Heliotropium tenellum* Nutt.
- strigosum* Raf. op. cit. 18, *descr.*, non Bieb. (1808). Florida = *Lithospermum carolinense* (Walt.) MacMill.
- tenellum* Raf.⁸¹ Am. Monthly Mag. Crit. Rev. 1:359. 1817, *nom.*; Am. Jour. Sci. 1:82. 1818, *nom.*; Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.* (*Myosotis scabra* Nutt.). New Jersey = *Myosotis verna* Nutt.
- **trinervum* Raf. Am. Jour. Sci. 1:82. 1818, *nom.* New Jersey.
- LYCOPSIS** Linn.
- axillaris* Raf. New Fl. N. Am. 4:19. 1836 [1838], *descr.* Florida.
- ***MESSERMIDIA** Raf. Sylva Tellur. 167. 1838, *nom.*, *nota* = *Messerschmidia* Linn. (1763).
- **fruticosa* Raf. l.c., *nom.*, *nota* [*Messerschmidia fruticosa* Linn. f.] = *Heliotropium messerschmidtoides* O. Kuntze.
- var. *angustifolia* Raf. l.c., *nom.* Canary Islands.
- latifolia* Raf. l.c., *nom.* Canary Islands.
- MONOMESIA** Raf. Fl. Tellur. 4:87. 1836 [1838], *nom.* (*Coldenia* sp. nov. Juss. Gen. 130. 1789; *Coldenia dichotoma* Lehm. e Peru) = *Coldenia* Linn.
- MYOSOTIS** Linn.
- **scabra* Nutt. ex Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom. sub Lithospermum tenellum* Raf. North America.
- #**MYXOS** Raf. Sylva Tellur. 37. 1838, *nom.*, subgen. *Cordia* Linn. (Type *Cordia myxa* Linn.).
- NOVELLA** Raf. Sylva Tellur. 39. 1838, *descr.* (*Novella* Rumph.) = *Cordia* Linn.
- nigra* Raf. l.c., *descr.* (*Novella nigra* Rumph. Herb. Amb. 2:226. t. 75. 1741; *Cordia subcordata* Lam.). Moluccas = *Cordia subcordata* Lam.; see Merrill, Interpret. Rumph. Herb. Amb. 447. 1917.
- OMPHALODES** Moench.
- **ovatifolia* Raf. Herb. Raf. 51. 1833, *nom.* Rocky Mountains or Oregon.
- #**ONOKILES** Raf. New Fl. N. Am. 4:19. 1836 [1838], *nom. nov. provis.*, subgen. *Batschia* J. F. Gmel. (Type *Batschia albiflora* Raf.) = *Heliotropium* Linn.
- OPLEXION** Raf. Fl. Tellur. 4:86. 1836 [1838], *descr.* = *Lobostemon* Lehm. (1830).
- ferox* Raf. l.c., *descr.* (*Echium ferocissimum* Andr. Bot. Repos. 1: t. 39. 1798). South Africa = *Lobostemon argenteus* (Berg.) Buek.
- OSKAMPJA** Raf. Sylva Tellur. 123. 1838, *descr.*, non Moench (1794) = *Tournefortia* Linn.
- hirsuta* Raf. l.c., *nom.* (*Tournefortia hirsutissima* Linn.) Tropical America.
- scandens* Raf. l.c., *nom.* (*Tournefortia scandens* Mill.). Jamaica.
- OSMODIUM** Raf. Med. Repos. II. 5:353. 1808, *nom. nov.* *Onosmodium* Michx.; Jour. Bot. (Paris) 2:172. 1809, *nom.* (*Onosmodium* Michx.); Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.*, *nota*; op. cit. 3:100. 1818, *nom.*, *nota*; op. cit. 4:191. 1819, *nom.* (*Onosmodium* Michx.; *Purshia* Spreng.); Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.* = *Onosmodium* Michx. (1803) (*Purshia* Spreng. 1817).
- **flexuosum* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
- **lasianthes* Raf. op. cit. 67, *nom.* Cumberland Mountains.
- nigrum* Raf. Atl. Jour. 1:148. 1832, *descr.* Florida = ? *Onosmodium virginianum* (Linn.) A. DC.
- ***PACURINA** Raf. Fl. Tellur. 1:85. 1836 [1837], *nom. nov.* *Messerschmidia* Linn. (1763) (*Messerschmidia* Linn. 1767); see Johnst. Jour. Arnold Arb. 16:161. 1935.
- PENTHYSA** Raf. Fl. Tellur. 4:86. 1836 [1838], *descr.* = *Lobostemon* Lehm. (1830).
- glauca* Raf. l.c., *descr.* (*Echium glaucophyllum* Jacq.; Andr. Bot. Repos. 5: t. 325. 1803). South Africa = *Lobostemon glaucophyllum* (Jacq.) Buek.
- levigata* Raf. l.c., *descr.* (*Echium laevigatum* Linn.). South Africa = *Lobostemon laevigatus* (Linn.) Buek.
- strigosa* Raf. l.c. *descr.* (*Echium fruticosum* Linn.; Ker-Gawl. Bot. Reg. 1: t. 36. 1815). South Africa = *Lobostemon fruticosus* (Linn.) Buek.
- PERISTIMA** Raf. Sylva Tellur. 89. 1838, *descr.* = *Heliotropium* Linn.
- bicolor* Raf. l.c., *descr.* (*Heliotropium "baccatum," sphalm.* = *H. bacciferum* Forsk.). Arabia.
- PILOISA** Raf. ex Jacks*. Ind. Kew. 2:525. 1894 = seq.
- curassavica* Raf. ex Jacks*. l.c. (*Piloisia curassavica* Raf.). South America = *Cordia curassavica* (Jacq.) Roem. & Schult.
- globosa* Raf. ex Jacks*. l.c. (*Piloisia globosa* Raf.). West Indies = *Cordia globosa* (Jacq.) H.B.K.
- ***PILOISIA** Raf. Sylva Tellur. 43. 1838, *descr.* = *Cordia* Linn.
- **curassavica* Raf. l.c., *nom.* (*Varronia curassavica* Jacq.). South America = *Cordia curassavica* (Jacq.) Roem. & Schult.
- **globosa* Raf. l.c., *nom.* (*Varronia globosa* Jacq.). West Indies = *Cordia globosa* (Jacq.) H.B.K.
- PIOCTONON** Raf. Sylva Tellur. 88. 1838, *descr.* = *Heliotropium* Linn.
- antillanum* Raf. l.c., *descr.* (*Heliotropium fruticosum* Linn.; *Tournefortia humilis* Linn.). West Indies = *Heliotropium fruticosum* Linn.
- persicum* Raf. l.c., *descr.* (*Heliotropium persicum* Burm. f. Fl. Ind. 41. t. 19. f. 1. 1768; "H. frutic[osum] var. Pers."). Persia.
- ternatum* Raf. l.c., *descr.* (*Heliotropium ternatum* Vahl). West Indies.
- PULMONARIA** Linn.
- elliptica* Raf. Herb. Raf. 66. 1833, *nom.*; New Fl. N. Am. 4:17. 1836 [1838], *descr.* Appalachian Mountains of Virginia = *Hackelia virginiana* (Linn.) Johnston.
- QUARENA** Raf. Sylva Tellur. 39. 1838, *descr.* = *Cordia* Linn.
- indica* Raf. l.c., *nom.* (*Cordia indica* Lam.). India = *Cordia dichotoma* Forst. f.
- sinensis* Raf. l.c., *nom.* (*Cordia sinensis* Lam. Tabl. Encycl. 1:423. 1791; Poir. in Lam. Encycl. 7:49. 1806). China = *Cordia dichotoma* Forst. f.
- spinescens* Raf. l.c., *nom.* (*Cordia spinescens* Linn.). India.

⁸¹ In the Amos Eaton herbarium at Yale University is a specimen of this with Rafinesque's original diagnosis. Here it is evident that Rafinesque, whose specimen is labelled Fishkill, sent certain specimens and descriptions to Eaton, the latter apparently for publication; but Eaton did not accept Rafinesque's offerings. There is one other case of a new *Stellaria*, also from Fishkill, where the Rafinesque specimen and description is in the Eaton herbarium; but Rafinesque never published this elsewhere.

- RACLATHRIS** Raf. Sylva Tellur. 167. 1838, *descr.* = *Rochelia* Reichb. (1824), non Roem. & Schult. (1819).
cerinthoides Raf. l.c., *nom.* (*Messersmidia cancellata* Asso). Spain = *Rochelia disperma* (Linn.) Wettst. (*R. stellulata* Reichb.).
- ROCHELIA** Roem. & Schult. (1819) = *Echinosperrum* Sw. (1818).
**remotiflora* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
- SCHOBERA** Scop. = *Heliotropium* Linn.
hirsuta Raf. Sylva Tellur. 158. 1838, *descr.* (*Heliotropium angiospermum* Murr.). Tropical America.
- SCORPIANTHES** Raf. Sylva Tellur. 89. 1838, *descr.* = *Heliotropium* Linn.
lineata Raf. l.c., *nom.* (*Heliotropium lineatum* Vahl; *Lithospermum heliotropoides* Forsk.). Arabia.
- SEBESTENA** Gaertn.; Raf. Sylva Tellur. 38. 1838, *descr.* = *Cordia* Linn.
indica Raf. l.c., *descr.* [*Cordia sebestina* Linn.]. "India" [West Indies].
repanda Raf. l.c., *descr.* (*Cordia [sebestina]* Linn.). South America.
scabra Raf. l.c., *descr.* (*Caryophyllus spurius inodorus* Sloane; Catesby, Nat. Hist. Carol. 2:91. t. 91. 1733). West Indies, Bahamas = *Cordia sebestina* Linn.
senegalensis Raf. op. cit. 39, *descr.* (*Cordia senegalensis* Poir.). Africa.
- SUBRISIA** Comm.; Raf. Sylva Tellur. 43. 1838, *descr.* = *Ehretia* Linn.
petiolaris Raf. l.c., *descr.* (*Ehretia petiolaris* Lam.; *E. internodis* L'Hérit.). Mauritius = *Ehretia petiolaris* Lam.
- SYMPHYTUM** Linn.
hirsutum Raf. Med. Fl. 2:95. 1830, *descr.*; Casket 1832:185. 1832, *descr.*; Sat. Eve. Post 11(560):[4]. 1832, *descr.* North America = *Symphytum officinale* Linn.
officinale Linn.; Raf. l.c., *descr.*; Casket 1832:185. 1832, *nom.*; Sat. Eve. Post 11(560):[4]. 1832, *descr.* Europe, introduced in North America.
var. albiflorum Raf. l.c., *nom.*
elator Raf. l.c., *nom.*
nigrum Raf. l.c., *nom.*
pumilum Raf. l.c., *nom.*
purpureum Raf. l.c., *descr.*
- SYNZISTACHIUM** Raf. Sylva Tellur. 89. 1838, *descr.* = *Heliotropium* Linn.
peruvianum Raf. l.c., *nom.*, *nota* (*Heliotropium synzistachyum* Ruiz & Pavon.). Peru = *Heliotropium angiospermum* Murr.
- TIARIDIUM** Lehm.
**riparium* Raf. Herb. Raf. 60. 1833, *nom.*, *nota* (*Heliotropium indicum* auct. Am.). Kentucky or Illinois = *Heliotropium indicum* Linn.
- TOPIARIS** Raf. Sylva Tellur. 43. 1838, *descr.* = *Cordia* Linn.
geniculata Raf. l.c., *descr.* (*Varronia geniculata* Pers.; *V. mirabiloides* Jacq.; *Tournefortia serrata* Linn.). Haiti = *Cordia mirabiloides* Jacq. (*C. serrata* Gürke, non Juss., nec Roxb.).
- TOQUERA** Raf. Sylva Tellur. 40. 1838, *descr.* = *Cordia* Linn.
tomentosa Raf. l.c., *descr.* (*Cordia toqueve* Aubl.). Guiana.
- TRAXARA** Raf. Fl. Tellur. 4:85. 1836 [1838], *descr.* = *Lobostemon* Lehm. (1830).
capitata Raf. op. cit. 86, *descr.* (*Echium capitatum* Linn.). South Africa = *Lobostemon capitatus* (Linn.) Buek.
- TRAXILUM** Raf. Sylva Tellur. 42. 1838, *descr.* = *Ehretia* Linn.
asperatum Raf. ex Jacks*. Ind. Kew. 2:1099. 1895 = seq.
**asperum* Raf. Sylva Tellur. l.c., *descr.* (*Ehretia aspera* Willd.; Roxb. Pl. Coromand. 1:42. t. 55. 1795). India.
- VERBENACEAE**
- AMICTONIS** Raf. Sylva Tellur. 161. 1838, *descr.* = *Callicarpa* Linn.
japonica Raf. l.c., *nom.* (*Callicarpa japonica* Thunb.). Japan.
- AVICENNIA** Linn.
floridana Raf. Atl. Jour. 1:148. 1832, *descr.* Florida, Louisiana, Jamaica = *A. tomentosa* Sw.
- †BERTOLONIA** Raf. Précis Découv. Somiol. 1814 (p. 3 of cover), *nom.* (*Verbena nodiflora* Linn.); iter. Desv. Jour. Bot. 4:277. 1814, *nom.*; Chloris Aetn. 5. 1815, *nom.* (*Verbena repens* Bertol.; *Verbena nodiflora* "europea" Linn.); Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.* (*Zapania nodiflora* sensu Pursh); op. cit. 4:194. 1819, *nom.* (*Zapania nodiflora* auct. Europ.); Jour. Phys. Chim. Hist. Nat. 89: 259. 1819, *nom.* (*Verbena nodiflora* Linn.; *Zapania nodiflora* Lam.); Fl. Tellur. 2:102. 1836 [1837], *nom.* sub *Pilopus* Raf., non *Bertolonia* Spinola (1809), nec DC. (1812), nec aliorum = *Phyla* Lour. (1790) = *Lippia* Linn.
**crassifolia* Raf. Chloris Aetn. 5. 1815, *nom.* (*Verbena nodiflora* "europea" Linn.; *Verbena repens* Bertol.). Sicily.
**scabra* Raf. ex M'Murtrie, Sketch. Louisv. 214. 1819, *nom.* Kentucky.
- EGENA** Raf. Fl. Tellur. 2:85. 1836 [1837], *descr.* = *Clerodendron* Linn.
erminensis Raf. l.c., *descr.* (*Clerodendron erminense* Bojer ex Hook. Bot. Mag. 56: t. 2925. 1829). Madagascar.
- #ERPILA** Raf. Sylva Tellur. 81. 1838, *descr.* subgen. *Lantana* Linn. (Type *Lantana annua* Linn.).
- LANTANA** Linn.
antillana Raf. Sylva Tellur. 82. 1838, *descr.* (*Lantana camara* Linn.). West Indies.
floridana Raf. Atl. Jour. 1:148. 1832, *descr.* (*Lantana camara* sensu Barton, Elliott); Herb. Raf. 58. 1833, *nom.*; Sylva Tellur. 82. 1838, *descr.* Florida = *Lantana camara* Linn.
incarnata Raf. Sylva Tellur. 83. 1838, *descr.* West Indies = *Lantana camara* Linn.
**ochreate* Raf. op. cit. 81, *nom.* sub *Lantana* Linn. Subg. *Periana* Raf.
parvifolia Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 21. 1833, *descr.*, non Salisb. 1796. Texas.
reticulata Raf. Sylva Tellur. 82. 1838, *descr.*, non Pers. 1807. Florida.
†rosea Raf. Herb. Raf. 58. 1833, *nom.*; Sylva Tellur. 83. 1838, *descr.* West Indies.
undulata Raf. Sylva Tellur. 82. 1838, *descr.*, non Schrank, 1822 (*Lantana annua* sensu Raf. Fl. Ludovic. 39. 1817, non Linn.). Louisiana = *Lantana camara* Linn.
- LOMAKE** Raf. Aut. Bot. 73. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:93. 1921, *nom.* Ex *descr.* = *Stachytarpheta* Vahl (1805), *nom. conserv.* (*Sherardia* Adans., 1763; *Valerianoides* Medic., 1789; *Vermicularia* Moench, 1802).
brachiata Raf. l.c., *descr.*; Pennell, l.c., *nom.* Cuba.
- PANOPE** Raf. Fl. Tellur. 2:103. 1836 [1837], *descr.* = *Lippia* Linn. (*Phyla* Lour., 1790).
stechadifolia Raf. l.c., *descr.* (*Verbena stoechadifolia* Linn.; *Zapania stoechadifolia* Juss.). Florida, Jamaica = *Lippia stoechadifolia* (Linn.) H.B.K. (*Phyla stoechadifolia* Greene).
- *PATULIX** Raf. Good Book 61. 1840, *nom. nov.* *Torreya* Spreng., (1821), non Raf. (1818, 1819) = *Clerodendron* Linn.
- #PERIANA** Raf. Sylva Tellur. 81. 1838, *descr.* subgen. *Lantana* Linn. (Types *Lantana ochreate* Raf.; *L. involucrata* Linn.; *L. aculeata* Linn.).
- PIARIMULA** Raf. Fl. Tellur. 2:102. 1836 [1837], *descr.*, *nom. nov.* *Phyla* Lour. (1790) = *Lippia* Linn.
chinensis Raf. l.c., *descr.* (*Phyla chinensis* Lour.). South-eastern China = *Lippia nodiflora* (Linn.) L. C. Rich.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):331. 1935.
- PILOPUS** Raf. Fl. Tellur. 2:102. 1836 [1837], *nom. nov.* *Bertolonia* Raf. (1818), non Spinola (1809) = *Phyla* Lour. (1790) = *Lippia* Linn.
nodiflora Raf. ex Jacks*, Ind. Kew. 2:525. 1894 (*Verbena nodiflora* Linn.) = *Lippia nodiflora* (Linn.) L. C. Rich.
- PLATONIA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1809, *nom.*; Car. Nuov. Gen. Sp. Sicil. 73. 1910, *nom.*, *nota*; Fl. Tellur. 1:16. 1836 [1837], *nom.* = *Phyla* Lour. (1790) = *Lippia* Linn.
nudiflora Raf. Med. Repos. et Jour. Bot. l.c., *nom.* (*Verbena nudiflora* Linn., *sphalm.* Raf. *nudiflora*); A. Gray, Am. Jour. Sci. 40:288. 1841, *nom.* Pantropic = *Lippia nodiflora* (Linn.) L. C. Rich.
- PLEXIPUS** Raf. Fl. Tellur. 2:104. 1836 [1837], *descr.* = *Bouchea* Cham. (1832).
cuneifolius Raf. l.c., *descr.* (*Buchnera cuneifolia* Thunb.; *Phryna dehiscens* Linn. f.). South Africa = *Bouchea dehiscens* (Linn. f.) Druce (*B. cuneifolia* Schauer).
- ROTHECA** Raf. Fl. Tellur. 4:69. 1836 [1838], *descr.* = *Clerodendron* Linn.
bicolor Raf. l.c., *descr.* (*Clerodendron macrophyllum* Sims, Bot. Mag. 52: t. 2536. 1825). Mauritius = *Clerodendron serratum* (Linn.) Spreng.
ternifolia Raf. l.c., *descr.* (*Volkameria serrata* Linn.; *Tsjerou-Theka* Rheede, Hort. Malabar. 4:61. t. 29. 1683). India = *Clerodendron serratum* (Linn.) Spreng.

- STYLEURODON** Raf. Fl. Tellur. 2:104. 1836 [1837], *descr.* = Stylodon Raf. (1825) = *Verbena* Linn.
carolinianum Raf. l.c., *descr.* (*Verbena caroliniana* Willd.; *Phryma carolinensis* Walt.). Carolina, Alabama, Florida = *Verbena carnea* Medic. (1784) (*Stylodon carolinensis* (Walt.) Small).
STYLODON Raf. Neogen. 2. 1825, *descr.* = *Styleurodon* Raf. (1837) = *Verbena* Linn.
scabrum Raf. l.c., *nom.* (*Verbena caroliniana* Willd.; *Phryma carolinensis* Walt.). Southeastern United States = *Verbena carnea* Medic. (1784) (*Verbena carolinensis* Small, Fl. Southeast. U. S. 1009. 1903; *Stylodon carolinensis* (Walt.) Small).
TARPHETA Raf. Fl. Tellur. 2:103. 1836 [1837], *descr.*, *nom. nov.* *Stachytarpheta* Vahl (1805), *nom. conserv.* (*Sherardia* Adans., 1763; *Valerianoides* Medic., 1789; *Vermicularia* Moench, 1802).
#TRILEPTA Raf. Sylva Tellur. 81. 1838, *descr.*, subgen. *Lantana* Linn. (Type *Lantana trifolia* Linn.) = *Lantana* Linn.
VERBENA Linn.
**coccinea* Raf. Herb. Raf. 50. 1833, *nom.* Oregon or the Rocky Mountains.
cuneifolia Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. (Paris) 1:228. 1809, *descr.* Pennsylvania, Maryland, Virginia = *V. stricta* Vent.
incarnata Raf. Atl. Jour. 1:154. 1832, *descr.*; Herb. Raf. 69. 1833, *nom.* Pennsylvania (Juniata River).
**laciniata* Raf. Herb. Raf. 61. 1833, *nom.* Kentucky or Illinois.
mollis Raf. Atl. Jour. 1:146. 1832, *nom.* (*Verbena stricta* Vent. var. *mollis* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:234. 1827). Arkansas River? = *V. stricta* Vent.
**multicaulis* Raf. Herb. Raf. 65. 1833, *nom.* Appalachian Mountains.
**nudiflora* Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:170. 1808, *nom.*, *sphalm.* = *Verbena nodiflora* Linn. = *Lippia nodiflora* (Linn.) L. C. Rich. Pantropic.
**ringens* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Herb. Raf. 61. 1833, *nom.*, ut videtur *sphalm.* = *Verbena rigens* Michx. Kentucky.
**riparia* Raf. Herb. Raf. 69. 1833, *nom.*; Small & Heller Mem. Torr. Bot. Club 3(1):12. 1892, *descr.* Long Island, New Jersey, Chesapeake Bay. (*V. urticifolia* Linn. var. *riparia* (Raf.) Britton).
ZAPANIA Lam. = *Lippia* Linn.
**crassifolia* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.

LABIATAE

- AITOPSIS** Raf. Fl. Tellur. 3:91. 1836 [1837], *descr.* = *Salvia* Linn.
foliosa Raf. l.c., *descr.* (*Salvia foliosa* Benth. Bot. Reg. 17: t. 1429. 1831). Mexico.
ANEMITIS Raf. Fl. Tellur. 3:87. 1836 [1837], *descr.* = *Phlomis* Linn.
AMARACUS Hill.
**sipleus* Raf. Fl. Tellur. 3:86. 1836 [1837], *nom.* [*Origanum sipleum* Linn.] = *A. sipleus* (Linn.) Briq. in Engl. & Prantl, Nat. Pflanzenfam. 4(3A):304. 1896. Asia Minor.
AMETHYSTEAE Linn.
**paniculata* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.
rigida Raf. l.c., *nom.* (*Phlomis herba-venti* Linn.). Mediterranean region.
ATIRBESIA Raf. Aut. Bot. 117. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.* = *Marrubium* Linn.
**bracteata* Raf. op. cit. 118, *nom.* (*Marrubium peregrinum* Linn.). Europe.
BELOAKON Raf. Fl. Tellur. 3:87. 1836 [1837], *descr.* = *Phlomis* Linn.
luteum Raf. l.c., *descr.* (*Phlomis herba-venti* sensu Soland. ex Russell, Nat. Hist. Aleppo ed. 2, 2:269. t. 16. 1794). Syria = *Phlomis russeliana* Lagasca.
tomentosum Raf. l.c., *descr.* (*Phlomis lunarifolia* Sibth. & Sm. [var. *russeliana* Sims]; Bot. Mag. 52: t. 2542. 1825; *P. russeliana* Lagasca). Syria = *Phlomis russeliana* Lagasca.
BELOPIS Raf. Fl. Tellur. 3:90. 1836 [1837], *descr.* = *Salvia* Linn.
levigata Raf. op. cit. 91, *descr.* (*Salvia laevigata* H.B.K. Nov. Gen. Sp. Pl. 2: t. 147. 1817; *S. involucrata* Cav. Ic. 2: 114. t. 105. 1793; Hook. Bot. Mag. 55: t. 2872. 1823; Lindl. Bot. Reg. 14: t. 1205. 1829). Mexico = *Salvia involucrata* Cav.
BELTOKON Raf. Fl. Tellur. 3:86. 1836 [1837], *descr.* = *Origanum* Linn.
tourneforti Raf. l.c., *nom.* (*Origanum tournefortii* Ait.). Greece.
BERINGERIA Neck. = *Ballota* Linn.
**dictamnoides* Raf. Aut. Bot. 118. 1840, *descr.* (*Marrubium pseudo-dictamnus* Linn.). Crete = *Ballota pseudo-dictamnus* (Linn.) Benth.
**plicata* Raf. l.c., *descr.* (*Marrubium plicatum* Forsk.; *M. undulatum* Sieber). Egypt, Asia Minor = *Marrubium alysson* Linn.
BLANDINA Raf. Fl. Tellur. 3:88. 1836 [1837], *descr.* = *Leucas* R. Br. (1810).
biflora Raf. l.c., *nom.* (*Phlomis biflora* Vahl.; *Leucas biflora* R. Br.). India.
chinensis Raf. l.c., *nom.* (*Phlomis chinensis* Retz.; *Leucas chinensis* R. Br.). India, ? China.
BLEPHILIA Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.*, *nota* (*Monarda ciliata* Linn.); op. cit. 207, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:98. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 238. 1820, *descr.*; Med. Fl. 2:37. 1830, *descr.* (ut subgen. *Monarda* Linn.); New Fl. N. Am. 4:94. 1836 [1838], *nom.*
becki Raf. Atl. Jour. 1:146. 1832, *nom.* (*Monarda ciliata* sensu Torr. Ann. Lyceum Nat. Hist. N. Y. 2:288. 1827). Missouri River = *Blephilia ciliata* (Linn.) Benth.
brevifolia Raf. New Fl. N. Am. 4:96. 1836 [1838], *nom.* sub *Blephilia lanceolata* Raf. (*Monarda ciliata* Linn.). North America = *Blephilia ciliata* (Linn.) Benth.
brevipes Raf. l.c., *descr.* Alabama = *B. ciliata* (Linn.) Benth.
†ciliata (Linn.) Benth. Lab. Gen. Sp. 319. 1832-33 (*Monarda ciliata* Linn.). Eastern North America.
†heterophylla Raf. Herb. Raf. 66. 1833, *nom.*; New Fl. N. Am. 4:96. 1836 [1838], *nom.* sub *B. lanceolata* Raf. (*Monarda ciliata* Linn.). Appalachian Mountains = *Blephilia ciliata* (Linn.) Benth.
**incarnata* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
lanceolata Raf. New Fl. N. Am. 4:96. 1836 [1838], *descr.* Kentucky, Indiana, Illinois = *B. hirsuta* (Pursh) Benth.
†nepetoides Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Herb. Raf. 60. 1833, *nom.*; New Fl. N. Am. 4:96. 1836 [1838], *nom.* sub *B. lanceolata* Raf. Kentucky = *B. hirsuta* (Pursh) Benth. ex spec. in herb. N. Y. Bot. Gard.
†pratensis Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1834, *nom.*; New Fl. N. Am. l.c., *nom.* sub *B. lanceolata* Raf. (*Monarda ciliata* Linn.). Kentucky = *Blephilia ciliata* (Linn.) Benth.
BLEPHILOMA Raf. Fl. Tellur. 3:87, *nom.*, 95, *descr.*, 1836 [1837] = *Phlomis* Linn.
amplifolia Raf. l.c. 85, *descr.*; Aut. Bot. 118. 1840, *nom.* Arkansas, Texas.
BLEPHIXETA Raf. *nom. provis.* subgen. *Pycnanthes* Raf. New Fl. N. Am. 4:96. 1836 [1838] (Type, *Pycnanthes ciliata* Raf.) = ? *Pycnanthemum* Michx. (1803), *nom. conserv.* (*Furera* Adans., 1763; *Koellia* Moench, 1794).
#BRACHYSTEMON Raf. New Fl. N. Am. 4:95. 1836 [1838], *nom.*, subgen. *Pycnanthes* Raf., sub *P. saxatilis* Raf. = seq.
BRACHYSTEMUM Michx. = *Pycnanthemum* Michx. (1803), *nom. conserv.* (*Furera* Adans., 1763; *Koellia* Moench, 1794).
**canescens* Raf. ex M'Murtrie, Sketch. Louisv. 214. 1819, *nom.* Kentucky.
BRUNELLA Linn. = *Prunella* Linn.
**brevispica* Raf. Herb. Raf. 61. 1833, *nom.* Kentucky or Illinois Prob. = *Prunella vulgaris* Linn.
**cinerea* Raf. New Fl. N. Am. 2:30. 1836 [1837], *descr.* Kentucky, Alabama, Florida = *Prunella vulgaris* Linn. var. *hispida* Benth.
**cordata* Raf. op. cit. 31, *descr.* Alleghany Mountains = *Prunella vulgaris* Linn.
**heterophylla* Raf. Herb. Raf. 68. 1833, *nom.*; New Fl. N. Am. 2:31. 1836 [1837], *descr.* Alleghany Mountains = *Prunella vulgaris* Linn.

BRUNELLA (*continued*).

- **hirsuta* Raf. Herb. Raf. 61. 1833, *nom.*; New Fl. op. cit. 30, *descr.* Illinois, Missouri=*Prunella vulgaris* Linn. var. *lanceolata* (Barton) Fernald.
 **microphylla* Raf. l.c., *nom.*, op. cit. 29, *descr.* (*microphylla*). Alleghany and Kiskatom Mountains=? *Prunella vulgaris* Linn.
 **montana* Raf. l.c., *nom.* Alleghany Mountains. Prob.=*Prunella vulgaris* Linn.
 **obtusifolia* Raf. New Fl. N. Am. 2:32. 1836 [1837], *descr.* Pennsylvania=*Prunella vulgaris* Linn.
 **pennsylvanica* Raf. l.c., *nom.* (*Prunella* **pennsylvanica* Muhl. Cat. 57. 1813, *nom.*). Pennsylvania. Prob.=*Prunella vulgaris* Linn.
 **petiolaris* Raf. Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 2:30. 1836 [1837], *descr.* Kentucky=*Prunella vulgaris* Linn. var. *lanceolata* (Barton) Fernald.
 **reticulata* Raf. New Fl. N. Am. 2:31. 1836 [1837], *descr.* Ohio, Kentucky=praec.
 **rosea* Raf. l.c., *descr.*; Life of Travels 134. 1936, *nom.* Alleghany Mountains=? praec.
 var. *breviflora* Raf. l.c., *nom.*
 **sessilifolia* Raf. Herb. Raf. 79. 1833, *nom.*; New Fl. N. Am. 2:30. 1836 [1837], *descr.* Florida=? *Prunella vulgaris* Linn.

CALAMINTHA Linn.

- **microphylla* Raf. Herb. Raf. 79. 1833, *nom.* Alabama or Florida.

CALOSPHEACE Raf. Fl. Tellur. 3:91. 1836 [1837], *descr.* (*Salvia* Linn. subgen. *Calosphace* Benth.)=*Salvia* Linn.**CHAMEDRYS** Raf. Fl. Tellur. 3:85. 1836 [1837], *descr.*⁸²=*Chamaedrys* Moench. (1794)=*Teucrium* Linn.

- **betonicifolia* Raf. Fl. Tellur. 3:85. 1836 [1837], *nom.* (*Teucrium betonicaefolium* Jacq.). Madeira.
capitata Raf. l.c., *nom.* (*Teucrium capitatum* Linn.). Mediterranean region.
cretica Raf. l.c., *nom.* (*Teucrium creticum* Linn.). Mediterranean region.
latifolia Raf. l.c., *nom.* (*Teucrium latifolium* Linn.). Mediterranean region.
montana Raf. l.c., *nom.* (*Teucrium montanum* Linn.). Europe.
nissoliana Raf. l.c., *nom.* (*Teucrium nissolianum* Linn.). Mediterranean region.
polium Raf. l.c., *nom.* (*Teucrium polium* Linn.). Mediterranean region.
pumila Raf. l.c., *nom.* (*Teucrium pumilum* Linn.). Spain.
quadrula Raf. l.c., *nom.* (*Teucrium quadratum* Sibth. & Sm.). Greece.
tetonicifolia Raf. ex Jacks*. Ind. Kew. 1:503. 1893, *sphalm.*=*C. betonicifolia* Raf.

#CHEILYCTIS Raf. Med. Fl. 2:37. 1830, *descr.*, subgen. *Monarda* Linn. (Type *Monarda punctata* Linn.); Benth. Lab. Gen. Sp. 726. 1836, ut sect. *Monarda* Linn.; Raf. ex McClint. & Epling, Univ. Calif. Publ. Bot. 20:176. 1942, in syn., ut gen. "Jour. Phys. 89:99. 1819" (non in op. cit.) =*Monarda* Linn., sect. *Coryanthus* Nutt. (1834)=*Monarda* Linn.**CLUERIA** Raf. Fl. Tellur. 3:87. 1836 [1837], *descr.*=*Eremostachys* Bunge (1830).

- laciniata* Raf. l.c., *nom.* [*Phlomis laciniata* Linn.]. Asia Minor =*Eremostachys laciniata* (Linn.) Bunge.

CODANTHERA Raf. Fl. Tellur. 3:90. 1836 [1837], *descr.*=*Salvia* Linn.

- biflora* Raf. l.c., *descr.* (*Salvia biflora* Ruiz & Pavon; S. *tubiflora* Sm.). Peru.
glabra Raf. l.c., *descr.* (*Salvia strictiflora* Hook. Bot. Mag. 59: t. 3135. 1832). Peru.

COLLINSONIA Linn.

- **angustifolia* Med. Fl. 1:114. 1828, *descr.*, iter. Man. Med. Bot. 114. 1841. Ohio, Kentucky.
 **bicolor* Raf. ex M'Murtrie, Sketch. Louisv. 215. 1819, *nom.* Kentucky. Prob.=*C. heterophylla* Grah.
 **cordata* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
 **grandiflora* Raf. l.c., *nom.* Alleghany Mountains.
 **heterophylla* Raf. l.c., *nom.* Alleghany Mountains.
 **longiflora* Raf. Med. Fl. 1:112. 1828, *nom.*, iter. Man. Med. Bot. 112. 1841.

- verticillaris* Raf. Fl. Ludovic. 41. 1817, *descr.* (*Collinsonia scabriuscula* sensu Rob. Voy. Louis. 3:390. 1807); Med. Fl. 1:112. 1828, *nom.*, iter. Man. Med. Bot. 112. 1841. Louisiana=*Micheliella verticillata* (Baldw.) Briq.

CROLOCOS Raf. Fl. Tellur. 3:93. 1836 [1837], *descr.*=*Salvia* Linn.

- aurea* Raf. ex Jacks*. Ind. Kew. 1:646. 1893 (*Salvia aurea* Linn.). South Africa.

- calicina* Raf. ex Jacks*. l.c. (*Salvia calicina* Sibth & Sm.). Greece.

- colorata* Raf. ex Jacks*. l.c. (*Salvia colorata* Linn.). South Africa.

- †*pomifera* Raf. Aut. Bot. 122. 1840, *nom.* (*Salvia pomifera* Linn.). Crete, Syria.

***DEMOSTHENIA** Raf. Car. Nuov. Gen. Sp. Sicil. 79. 1810, *nom. nov.* *Marrubiastrum* Moench.=*Sideritis* Linn.**DIALLOSTEIRA** Raf. Neogen. 2. 1825, *descr.*=*Collinsonia* Linn.

- punctata* Raf. ex Jacks*. Ind. Kew. 1:741. 1893 (*Collinsonia punctata* Ell.). Southeastern United States.

DICTILIS Raf. Fl. Tellur. 3:89. 1836 [1837], *descr.*=*Otostegia* Benth. (1834).

- molucoides* Raf. l.c., *descr.* (*Phlomis moluccoides* Vahl; *Clinopodium fruticosum* Forsk.). Arabia=*Otostegia fruticosa* (Forsk.) Schweinf.

DIODEILIS Raf. Fl. Tellur. 3:82. 1836 [1837], *nom. alt.*

- Rafinesquia* Raf. l.c., non *Rafinesquia* Raf. op. cit. 2:96. 1836 [1837]; New Fl. N. Am. 3:51. 1836 [1838], *nom. alt.* *Rafinesquia* Raf.=*Clinopodium* Linn.

- coccinea* Raf. Fl. Tellur. 3:83. 1836 [1837], *nom. alt.* *Rafinesquia coccinea* Raf. l.c. (*Cunila coccinea* Nutt. ex Hook.; *Melissa coccinea* Spreng.; *Gardoquia hookeri* Benth.). Florida=*Clinopodium coccineum* (Nutt.) O. Kuntze (*Satureia coccinea* Bertol.).

DIODONTOCHEILIS** Raf. l.c., *nom.*=praec.DISELDIA** Raf. Fl. Tellur. 3:83. 1836 [1837], *nom. sub*

- Rafinesquia* (*Diodeilis*) Raf. Florida. Quid?

***DORICLEA** Raf. Fl. Tellur. 3:89. 1836 [1837], *descr.*=*Leucas* R. Br. (1810).

- **indica* Raf. l.c., *nom.* (*Phlomis indica* Linn.). "India" fide Linnaeus [Madagascar fide de Candolle]=*Leucas indica* (Linn.) R. Br.

DRACOCEPHALUM Linn.

- nervosum* Raf. Fl. Ludovic. 43. 1817, *descr.* (*Dracocephale* 1, 2, Rob. Voy. Louis. 3:393. 1807). Louisiana.

ELBUNIS Raf. Fl. Tellur. 3:88. 1836 [1837], *descr.*=*Ballota* Linn.

- alba* Raf. op. cit. 89, *nom.* (*Phlomis alba* Forsk.). Arabia= *Ballota* ? *forskahlei* Benth.

ELELIS Raf. Fl. Tellur. 3:92. 1836 [1837], *descr.*=*Salvia* Linn.

- austriaca* Raf. op. cit. 93, *nom.*, *nota* (*Salvia austriaca* Jacq.). Europe.

ELSHOTZIA Brongn.=*Elsholtzia* Willd. (1790).

- **cristata* Raf. Aut. Bot. 121. 1840, *nom.* (*Hyssopus ocymifolius* Lam.; *Mentha ovata* Cav.). Siberia=*Elsholtzia cristata* Willd.=*E. patrina* (Lepech.) Garcke.

***ELSCHOZIA** Raf. Fl. Tellur. 2:92. 1836 [1838], *nom.*=praec.**EMPEDOCLEA** Raf. Car. Nuov. Gen. Sp. Sicil. 79. 1810, *descr.*; Stat. Gen. Sicil. 27. 1810, *nom.*; Fl. Tellur. 1:16. 1836 [1837], *nom.*=*Sideritis* Linn.

- montana* Raf. Car. Nuov. et Stat. Gen. Il.cc., *descr.*, *nom.*; Specch. Sci. 2:45. 1814, *nom.*, *nota*. Sicily=*Sideritis sicula* Ucria.

ENEODON Raf. Fl. Tellur. 3:88. 1836 [1837], *descr.*=*Leucas* R. Br. (1810).

- urticifolia* Raf. l.c., *nom.* (*Phlomis urticifolia* Vahl). Arabia, Africa=*Leucas urticaefolia* (Vahl) R. Br.

ENIPEA Raf. Fl. Tellur. 3:92. 1836 [1837], *descr.*=*Salvia* Linn.

- formosa* Raf. l.c., *descr.* (*Salvia formosa* L'Hérit. Stirp. Nov. 41. t. 21. 1785; Curtis, Bot. Mag. 11: t. 376. 1797; *Salvia nodosa* Ruiz & Pavon Fl. Peruv. 1:25. 1798); Aut. Bot. 122. 1840, *nom.* Peru=*Salvia leonuroides* Gloxin.

EPIADENA Raf. Fl. Tellur. 3:94. 1836 [1838], *descr.*=*Salvia* Linn.

- bicolor* Raf. l.c., *descr.* (*Salvia bicolor* Lam.; Desf. Fl. Atl. 1: t. 2. 1798; Salisb. Parad. Lond. 2: t. 113. 1807). North Africa.

⁸² With the exception of the first name all are entered in *Index Kewensis* 1:503. 1893 under *Chamaedrys* Moench.

- †**EUHEMUS** Raf. Med. Fl. 2: 27. 1830, sub *Lycopus virginicus* Linn., descr., subgen. *Lycopus* Linn.; New Fl. N. Am. 4:94. 1836 [1838], nom. in obs. ut gen.; op. cit. 97, nom.; Aut. Bot. 115. 1840, descr.; Pennell, Bull. Torr. Bot. Club. 48: 94. 1921, nom.=*Lycopus* Linn.
- officinalis** Raf. Aut. Bot. 115. 1840, descr. (*Lycopus virginicus* Linn.); Pennell, Bull. Torr. Bot. Club 48:94. 1921, nom. Canada to Louisiana=*Lycopus virginicus* Linn.
- var. *gracilis* Raf. Aut. Bot. 116. 1840, nom.
- var. *latifolius* Raf. l.c., nom.
- var. *microphyllus* Raf. l.c., nom.
- var. *ruber* Raf. l.c., nom.
- ***surculosus** Raf. op. cit. 115, nom. alt. *L. officinalis* Raf. Eastern North America=*Lycopus virginicus* Linn.
- ***sylvaticus** Raf. op. cit. 116, 1840, descr. Kentucky, Ohio.
- ***uniflorus** Raf. l.c., descr. (*Lycopus uniflorus* Michx.). Alleghany Mountains.
- #**EUPALUS** Raf. Fl. Tellur. 3:88. 1836 [1837], nom., subgen. *Leonotis* Linn. (Type *L. caribea* Raf.)=*Leucas* R. Br. (1810).
- EURIPLIS** Raf. Fl. Tellur. 3:94. 1836 [1837], descr.=*Salvia* Linn.
- var. *rugosa* Raf. l.c., nom. (*Salvia sibthorpii* Sibth. & Sm. Fl. Graec. 1:17. t. 22. 1806). Greece.
- EUSTERALIS** Raf. Fl. Tellur. 2:95. 1836 [1837], descr.; op. cit. 3:7. 1836 [1837], nom., nota=Dysophylla Blume (1826).
- var. *pumila* Raf. l.c., descr. (*Mentha pumila* Grah.; *Mentha verticillata* Roxb.; Hook. Bot. Mag. 56: t. 2907. 1829). Nepal=Dysophylla verticillata (Roxb.) Benth.
- FENIXANTHES** Raf. Aut. Bot. 122. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:94. 1921, nom.=*Salvia* Linn.
- var. *splendens* Raf. l.c., descr. (*Salvia splendens* Ker-Gawl.); Pennell, l.c., nom. Texas.
- FLIPANTA** Raf. Fl. Tellur. 3:92. 1836 [1837], descr.=*Salvia* Linn.
- var. *ovata* Raf. l.c., descr. (*Salvia spielmanni* Scop. Del. Fl. Faun. Insul. 3:31. t. 15. 1788). Africa=*Salvia viridis* Linn.
- GALEOPSIS** Linn.
- †*montana* Raf. Herb. Raf. 68. 1833, nom.; New Fl. N. Am. 2:21. 1836 [1837], descr.; Aut. Bot. 116. 1840, nom. Oquago Mountains, New York.
- GLECHOMA** Linn.
- **riparia* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, nom. Kentucky.
- var. *rotundifolia* Raf. Atl. Jour. 1:177. 1833, descr.; Herb. Raf. 23. 1833, descr. Texas.
- GLUTINARIA** Raf. Fl. Tellur. 3:93. 1836 [1837], descr., gen. vel. subgen.=*Salvia* Linn.
- **acuminata* Raf. Aut. Bot. 122. 1840, descr. Siberia.
- var. *glutinosa* Raf. ex Jacks*. Ind. Kew. 1:1026. 1893 (*Salvia glutinosa* Linn.). Europe.
- **sagittata* Raf. Aut. Bot. 122. 1840, nom. nov. *Salvia glutinosa* Linn. Europe.
- GNOTERIS** Raf. Sylva Tellur. 76. 1838, descr. (*Mesosphaerum* P. Browne, 1756)=*Hyptis* Jacq. (1786), nom. conserv. (*Mesosphaerum* P. Brown, 1756; *Condea* Adans., 1763).
- var. *cordata* Raf. l.c., descr. (*Ballota suaveolens* Linn.). South America=*Hyptis suaveolens* (Linn.) Poir.
- var. *villosa* Raf. l.c., descr. (*Ballota suaveolens* sensu Sw.). Jamaica=*Hyptis suaveolens* (Linn.) Poir.
- HEMATODES** Raf. Fl. Tellur. 3:93. 1836 [1837] (Type *Salvia hematodes* Linn.)=*Salvia* Linn.
- var. *indica* Raf. ex Jacks*. Ind. Kew. 1:1125. 1893 (*Salvia indica* Linn.). "India" [Syria] (*Salvia brachycalyx* Boiss.).
- HEMISODON** Raf. Fl. Tellur. 3:88. 1836 [1837], descr.=*Leonotis* R. Br. (1811).
- var. *leonurus* Raf. l.c., nom. (*Phlomis leonurus* Linn.; *Leonotis leonurus* R. Br.; Curtis, Bot. Mag. 13: t. 478. 1800); Aut. Bot. 118. 1840, nom. South Africa=*Leonotis leonurus* (Linn.) R. Br.
- HEMISTEGIA** Raf. Fl. Tellur. 3:89. 1836 [1837], descr.=*Salvia* Linn.
- var. *mexicana* Raf. op. cit. 90, descr. (*Salvia mexicana* Linn.); Aut. Bot. 121. 1840, nom. Mexico.
- HEPTRILIS** Raf. Fl. Tellur. 3:89. 1836 [1837], descr.=*Leucas* R. Br. (1810).
- var. *glabrata* Raf. l.c., nom. (*Phlomis glabrata* Vahl; *Leucas glabrata* R. Br.). Arabia=*Leucas glabrata* (Vahl) R. Br.
- HERSILIA** Raf. Fl. Tellur. 3:88. 1836 [1837], descr.=*Phlomis* Linn.
- var. *biloba* Raf. l.c., nom. (*Phlomis biloba* Desf. Fl. Atl. 2:25. t. 127. 1800). Mediterranean region=*Phlomis crinita* Cav.
- HETREPTA** Raf. Fl. Tellur. 3:88. 1836 [1837], descr.=*Leucas* R. Brown (1810).
- var. *lavandulifolia* Raf. l.c., nom. (*Leucas lavandulaefolia* Sm.). India.
- HYPOGON** Raf. Fl. Ludovic. 41. 1817, nom., nota, subgen. vel gen., sub *Collinsonia* Linn.; op. cit. 148, nom., nota, ut gen., sub *Collinsonia verticillata* Raf.; Am. Monthly Mag. Crit. Rev. 3:101. 1818, nom., nota (*Collinsonia anisata* Sims); op. cit. 4:190. 1819, nom., nota (*Collinsonia* spp.); Med. Fl. 1:112. 1828, nom., nota, iter. Man. Med. Bot. 112. 1841, "subgenus—perhaps—a genus"=*Micheliella* Briq. (1897).
- var. *anisatum* Raf. Fl. Ludovic. 148. 1817, nom. *Collinsonia anisata* Sims; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, nom.; Med. Fl. 2:230. 1830, nom. Southeastern United States=*Micheliella anisata* (Sims) Briq.
- **verticillatum* Raf. Fl. Ludovic. 148. 1817, nom., nota (*Collinsonia verticillaris* Raf. op. cit. 41). Louisiana. Prob.=*Micheliella verticillata* (Baldw.) Briq.
- HYSSOPUS** Linn.
- **trilobus* Kin ex Raf. Aut. Bot. 117. 1840, nom., in nota sub *Leonurus cuneifolius* Raf.=*Leonurus sibiricus* Linn.
- ISANTHUS** Michx.
- **ceruleus* Raf. Western Rev. Miscel. Mag. 1:94. 1819, nom.; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, nom. Kentucky=*I. caeruleus* Michx.
- †*multiflorus* Raf. Herb. Raf. 67. 1833, nom.; New Fl. N. Am. 2:35. 1836 [1837], descr. Kentucky (Wasioto or Cumberland Mountains).
- †*pubescens* Raf. l.c., nom., descr. Kentucky (Wasioto or Cumberland Mountains).
- †*pumilus* Raf. Herb. Raf. 62. 1833, nom.; New Fl. N. Am. op. cit. 34, descr. Western Kentucky and Tennessee.
- ISODECA** Raf. Fl. Tellur. 3:88. 1836 [1837], descr.=*Leucas* R. Br. (1810).
- var. *flaccida* Raf. l.c., descr. (*Leucas flaccida* R. Br.). India.
- KIOSMINA** Raf. Fl. Tellur. 3:92. 1836 [1837], descr.=*Salvia* Linn.
- var. *hispanica* Raf. Aut. Bot. 121. 1840, nom. (*Salvia hispanica* Linn.). Tropical America.
- LARNASTYRA** Raf. Fl. Tellur. 3:92. 1836 [1837], descr.=*Salvia* Linn.
- var. *claytoni* Raf. l.c., nom. [*Salvia claytoni* Nutt.]; Aut. Bot. 121. 1840, nom. Maryland.
- **cuneifolia* Raf. Aut. Bot. 122. 1840, descr. Alleghany Mountains.
- var. *indica* Raf. Fl. Tellur. 3:92. 1836 [1837], nom. [*Salvia indica* Linn.]. "India" [Syria] (*Salvia brachycalyx* Boiss.).
- var. *lyrata* Raf. l.c., nom. [*Salvia lyrata* Linn.]. Eastern United States.
- var. *urticifolia* Raf. l.c., nom. [*Salvia urticifolia* Linn.]; Aut. Bot. 121. 1840, nom. Delaware to Kentucky and Alabama.
- var. *ternifolia* Raf. Aut. Bot. l.c., nom.
- var. *verbenacea* Raf. Fl. Tellur. l.c., nom. [*Salvia verbenacea* Linn.]. Europe to western Asia.
- ***LASEMIA** Raf. Fl. Tellur. 3:91. 1836 [1837], descr.; Aut. Bot. 121. 1840, nom.=*Salvia* Linn.
- **coccinea* Raf. l.c., descr. (*Salvia grahami* Benth. Bot. Reg. 16: t. 1370. 1830); Aut. Bot. l.c., nom. (*Salvia grahami* Benth.). Mexico.
- LAVANDULA** Linn.
- **stoechas* Raf. First Cat. Bot. Gard. Transylv. Univ. 18. 1824, nom.=*L. stoechas* Linn. Mediterranean region.
- LEONOTIS** R. Br.
- var. *capensis* Raf. Fl. Tellur. 3:88. 1836 [1838], nom. (*Phlomis leonitis* Linn.). South Africa=*Leonotis leonitis* (Linn.) R. Br.
- var. *caribea* Raf. l.c., nom. [*Phlomis caribaea* Jacq.]. West Indies=*Leucas martinicensis* (Jacq.) R. Br.
- LEONURUS** Linn.
- **cuneifolius* Raf. Aut. Bot. 117. 1840, descr. Siberia and Pennsylvania to Ohio=*Leonurus sibiricus* Linn.
- **multifidus* Raf. op. cit. 116, descr. New Jersey to Kentucky=*Leonurus cardiaca* Linn.
- **reticulatus* Raf. op. cit. 117, descr. Alleghany Mountains.
- LEUCASIA** Raf. Fl. Tellur. 3:88. 1836 [1837], descr., nom. nov. *Leucas* R. Br. (1810).
- var. *zeylanica* Raf. ex Jacks*. Ind. Kew. 2:70. 1804 (*Leucas zeylanica* R. Br.). Asia.

LYCOPUS Linn.

- **amplectens* Raf. Aut. Bot. 115. 1840, *descr.* Alabama (*L. sessilifolius* A. Gray, 1870); see Fernald, *Rhodora* 45:56. 1940.
- **angustifolius* Raf. ex M'Murtrie Sketch. Louisv. 220. 1819, *nom.*; Ann. Nat. Ann. Synop. 13. 1820, *descr.* Western Kentucky=? seq.
- angustifolius* Ell.; Raf. Aut. Bot. 115. 1840, *descr.* Carolina to Illinois.
var. *linearis* Raf. l.c., *nom.*
var. *longifolius* Raf. l.c., *nom.*
- heterophyllus* Raf. Med. Fl. 2:28. 1830, *descr.* (*L. exaltatus* sensu Ell.). Southeastern United States=*L. americanus* Muhl.
var. *angustatus* Raf. l.c., *nom.*
var. *bipinnatifidus* Raf. l.c., *nom.*
var. *dissectus* Raf. l.c., *nom.*
- **integrifolius* Raf. Aut. Bot. 115. 1840, *descr.* Carolina to Florida.
- longifolius* Raf. Med. Fl. 2:28. 1830, *descr.* (*L. angustifolius* Ell.). Southern and middle western United States.
var. *gracilis* Raf. l.c., *nom.*
var. *linearifolius* Raf. l.c., *nom.*
- pauciflorus* Raf. l.c., *descr.* (*Lycopus pennsylvanicus* Muhl.); Aut. Bot. 115. 1840, *descr.* (*L. pennsylvanicus*). New England to Louisiana=*L. europaeus* Linn.
var. *flexuosus* Raf. l.c., *nom.*
var. *hirsutus* Raf. l.c., *nom.*
- pennsylvanicus* Muhl. ex Raf. Med. Fl. l.c., *nom.* sub *L. pauciflorus* Raf.=*prae.*
- **pinnatifidus* Raf. Aut. Bot. 114. 1840, *descr.* Kentucky to Carolina and Virginia.
var. *dissectus* Raf. op. cit. 115, *nom.*
var. *heterophyllus* Raf. l.c., *nom.*
var. *traxigonus* Raf. l.c., *nom.*
- virginicus* Linn.; Raf. Med. Fl. 2:26. 1830. Eastern United States.
var. *gracilis* Raf. op. cit. 27, *descr.*
var. *latifolius* Raf. l.c., *descr.*
var. *microphyllus* Raf. l.c., *descr.*
var. *ruber* Raf. l.c., *descr.*
var. *sylvaticus* Raf. l.c., *descr.* Kentucky, Ohio.
- vulgaris* Pers.; Raf. Med. Fl. 2:28. 1830 (*Lycopus europaeus* Linn.). Europe and North America=*Lycopus europaeus* Linn.
var. *angustifolius* Raf. l.c., *descr.*
var. *latifolius* Raf. l.c., *descr.*
var. *repens* Raf. l.c., *descr.* (*Lycopus sinuatus* Ell.).
var. *trachigonus* Raf. l.c., *descr.*

MAJORANA Mill.; Raf. Fl. Tellur. 3:86. 1836 [1837], *descr.*=*Origanum* Linn.

- fragrans* Raf. l.c., *nom.* (*Origanum majorana* Linn.); Aut. Bot. 119. 1840, *nom.* Europe.
var. *obovata* Raf. Aut. Bot. l.c., *descr.* Palestine, Syria.
- suffruticosa* Raf. Fl. Tellur. 3:86. 1836 [1837], *nom.* (*Origanum majoranoides* Willd.). Europe.
- **syriaca* Raf. Aut. Bot. 119. 1840, *nom.* (*Origanum syriacum* Linn.). Syria, Palestine.
- tenuifolia* Raf. l.c., *nom.* Hab.?

MARRUBIUM Linn.

- **flexuosum* Raf. Fl. Ludovic. 43. 1817, *nom. nov. provis.* *M. vulgare* sensu Raf. l.c.; *Marube commun* Rob. Voy. Louis. 3:392. 1807). Louisiana=*Marrubium vulgare* Linn.
- saxatile* Raf. Specch. Sci. 2:134. 1814, *descr.*; Précis Découv. Somiol. 38. 1814, *descr.*; Jour. Bot. (Desv.) 4:270. 1814, *nom.* (*M. hispanicum* Lam.?). Chloris Aetn. 10. 1815, *nom.* Sicily.

MEGYATHUS Raf. Fl. Tellur. 3:93. 1836 [1837], *descr.*=*Salvia* Linn.

- acetabulum* Raf. ex Jacks*. Ind. Kew. 2:186. 1894 (*Salvia acetabulosa* Linn.). Asia Minor.

MELIGO Raf. Fl. Tellur. 3:92. 1836 [1837], *descr.*=*Salvia* Linn.

- amena* Raf. ex Jacks*. Ind. Kew. 2:201. 1894 (*Salvia amoena* Sims). West Indies=*Salvia lamiifolia* Jacq.

MELISSA Linn.

- **sylvatica* Raf. Med. Fl. 2:242. 1830, *nom.*

MELOSOMON Raf. Fl. Tellur. 3:85. 1836 [1837], *descr.*=*Teucrium* Linn.

- bicolor* Raf. l.c., *nom.* (*Teucrium bicolor* Sm.). Peru, Chili.

- campanulatum* Raf. l.c., *nom.* (*Teucrium campanulatum* Linn.). Italy, Greece.

- orientale* Raf. l.c., *nom.* (*Teucrium orientale* Linn.). Asia Minor.

- rotundifolium* Raf. l.c., *nom.* (*Teucrium rotundifolium* Schreb.). Southern Europe=*T. pyrenaicum* Linn.

MENTHA Linn.

- **agrestis* Raf. Aut. Bot. 113. 1840, *descr.* Europe. Prob.=*Mentha arvensis* Linn.

- **capitata* Raf. Herb. Raf. 50. 1833, *nom.*; New Fl. N. Am. 4:94. 1836 [1838], *nom.*; Aut. Bot. 112. 1840, *descr.*, Oregon.

- **ciliata* Raf. Aut. Bot. 113. 1840, *nom. nov.* *M. arvensis* Linn.; New Fl. N. Am. 4:94. 1836 [1838], *nom.* Europe.

- †*cinerea* Raf. Herb. Raf. 68. 1833, *nom.*; Life of Travels 121. 1836, *nom.*; New Fl. N. Am. 4:94. 1836 [1838], *descr.*; Aut. Bot. 112. 1840, *nom.* Pennsylvania.

- **dentata* Raf. New Fl. N. Am. 4:94. 1836 [1838], *nom.* [North America].

- farinosa* Raf. Fl. Ludovic. 10, *nom.*, 42, *descr.*, 1817 (*Mentha panachée* Rob. Voy. Louis. 3:380. 1807). Louisiana.

- **glaucia* Raf. Aut. Bot. 114. 1840, *descr.* Alleghany Mountains.

- var. *parvifolia* Raf. l.c., *descr.* Pennsylvania.

- **lycopoides* Raf. l.c., *descr.* Ohio, Kentucky.

- **obliqua* Raf. op. cit. 113, *descr.* Siberia.

- **pectinata* Raf. New Fl. N. Am. 4:94. 1836 [1838], *nom.*; Aut. Bot. l.c., *descr.* Bohemia (Carpathian Mountains).

- **trachiloma* Raf. New Fl. N. Am. 4:94. 1836 [1838], *nom.* Hab.?

- **traxigona* Raf. Aut. Bot. 114. 1840, *descr.* Lake Erie to Illinois.

MONARDA Linn.

- **citriodora* Raf. Fl. Ludovic. 10, *nom.*, 40, 1817, *descr.* (*Monarda vulg. citronelle* Rob. Voy. Louis. 3:40. 1807); Med. Fl. 2:39. 1830, *descr.* Louisiana. An *M. citriodora* Cerv. (1816)?

- coccinea* Michx.; Raf. Med. Fl. 2:35. f. 64. 1830, *descr.*; Casket 1831:89. 1 f. 1831, *descr.*; Sat. Eve. Post 10(503): [4]. 1831, *descr.* North America=*M. didyma* Linn.

- var. *angustifolia* Raf. Med. Fl. op. cit. 63, *descr.*

- var. *cordata* Raf. l.c., *descr.*

- var. *didyma* Raf. l.c., *descr.*

- var. *grandiflora* Raf. l.c., *descr.*

- var. *prolifera* Raf. l.c., *descr.*

- †*pratensis* Raf. Western Minerva 41. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900; Med. Fl. 2:37. 1830, *descr.* Kentucky.

- rigida* Raf. Med. Fl. l.c., *descr.*; Atl. Jour. 1:16. 1832, *descr.* Western Kentucky=*M. bradburyana* Beck (1826)=*M. rus-seliana* Nutt. ex Sims 1824, non Nutt. 1835-36.

- **saxatilis* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.

- virgata* Raf. Med. Fl. l.c., *descr.* Illinois, Arkansas (*M. rus-seliana* Nutt. 1835-36, non Nutt. ex Sims, 1824); see Fernald, *Rhodora* 46:492. 1944.

MONIPSIS Raf. Fl. Tellur. 3:85. 1836 [1837], *descr.*=*Teucrium* Linn.

- orchidea* Raf. l.c., *descr.* (*Teucrium orchideum* Lindl. Bot. Reg. 15: t. 1255. 1829). Chile=*T. bicolor* Sm.

NEPETA Linn.

- **levigata* Raf. Aut. Bot. 119. 1840, *descr.* Illyria.

- **lupulina* Raf. op. cit. 120, *descr.* (*N. tuberosa* Linn.?). Lusitania.

- **organifolia* Raf. op. cit. 119, *descr.* (*N. incana* Sieber). Crete=*Calamintha cretica* Benth.

NOSTELIS Raf. Sylva Tellur. 76. 1838, *descr.*=*Micromeria* Benth. (1829).

- arborescens* Raf. l.c., *descr.* (*Satureia viminea* Linn. "var." Sw. [Obs. Bot. 227. 1791]). Jamaica=*Micromeria viminea* (Linn.) Druce.

- minor* Raf. l.c., *descr.* (*Satureia viminea* sensu Sw.). Jamaica=*Micromeria viminea* (Linn.) Druce.

- viminea* Raf. l.c., *descr.* (*Satureia viminea* Linn.). West Indies=*Micromeria viminea* (Linn.) Druce.

#**NOTERIAS** Raf. Sylva Tellur. 76. 1838, *nom.*, *nota*, subgen. *Gnoteris* Raf. (Type *Ballota disticha* Linn.)=*Anisomeles* R. Br. (1810).**OBOSKON** Raf. Fl. Tellur. 3:93. 1836 [1837], *descr.*=*Salvia* Linn.

- cretica Raf. ex Jacks*. Ind. Kew. 2:323. 1894 (*Salvia cretica* Linn.). Crete.
- ONITES** Raf. Fl. Tellur. 3:86. 1836 [1837], *descr.*=*Origanum* Linn.
- tomentosa* Raf. l.c., *nom.* (*Origanum onites* Linn.). Southern Europe, Asia Minor.
- ORIGANUM** Linn.
- **egyptiacum* Raf. Fl. Tellur. 3:86. 1836 [1837], *nom.*=*O. aegyptiacum* Linn. Egypt, Arabia.
- vulgare* Linn. Europe.
- var. *americanum* Raf. Aut. Bot. 119. 1840, *descr.* Canada to Pennsylvania.
- humile* Raf. op. cit. 118, *nom.* Siberia.
- rotundifolium* Raf. op. cit. 119, *descr.* Germany.
- ORMIATIS** Raf. Fl. Tellur. 3:93. 1836 [1837], *descr.*=*Salvia* Linn.
- pinnata* Raf. ex Jacks*. Ind. Kew. 2:367. 1894 (*Salvia pinnata* Linn.). Asia Minor.
- ORMILIS** Raf. Fl. Tellur. 3:94. 1836 [1837], *descr.*=*Salvia* Linn.
- horminum* Raf. ex Jacks*. Ind. Kew. 2:367. 1894 (*Salvia horminum* Linn.). Mediterranean region.
- viridis* Raf. ex Jacks*. l.c. (*Salvia viridis* Linn.). Mediterranean region.
- OROGA** (Lobel.) Raf. Fl. Tellur. 3:86. 1836 [1837], *nom.*=*Origanum* Linn.
- heracleotica* Raf. ex Jacks*. Ind. Kew. 2:376. 1894, *nom.* (*Origanum heracleoticum* Linn.). Europe=*Origanum vulgare* Linn.
- **hereaclontica* Raf. Fl. Tellur. l.c., *nom.*, *sphalm.*=*praec.*
- PANZERIA** Moench=*Leonurus* Linn.
- **angustifolia* Raf. Aut. Bot. 117. 1840, *descr.* (*Leonurus sibiricus* Linn.?). China=*Leonurus sibiricus* Linn.
- **villosa* Raf. l.c., *descr.* (*Leonurus tataricus* Linn.?). Siberia=*Leonurus tataricus* Linn.
- PERXO** Raf. Aut. Bot. 121. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=*Moschosma* Reichb. (1828).
- polystachya* Raf. l.c., *descr.* (*Ocimum polystachyon* Linn.); Pennell, l.c., *nom.* India=*Moschosma polystachyum* (Linn.) Benth.
- PHLOMIS** Linn.
- **grandifolia* Raf. Herb. Raf. 60. 1833, *nom.* Arkansas.
- **reticulata* Raf. Aut. Bot. 118. 1840, *descr.* (*Phlomis pungens* Willd.). Southwestern Russia (Podolia).
- **sanicala* Sieber ex Raf. l.c., *descr.*, *sphalm.*? an *P. samia* Linn.? Palestine.
- PIARADENA** Raf. Fl. Tellur. 3:91. 1836 [1837], *descr.*=*Salvia* Linn.
- fulgens* Raf. l.c. (*Salvia fulgens* Cav.; Lindl. Bot. Reg. 16: t. 1356. 1830; *S. cardinalis* H.B.K. Nov. Gen. Sp. Pl. 2: 310. t. 152. 1817 (ed. fol. 2:242); Aut. Bot. 121. 1840, *nom.* Mexico=*Salvia fulgens* Cav.
- PILOBLEPHIS** Raf. New Fl. N. Am. 3:52. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*=*Satureia* Linn. (*Pycnothymus* Small, 1903).
- ericoides* Raf. op. cit. 53, *nom.* alt. *Piloblephis rigida* Raf. Florida=seq.
- rigida* Raf. l.c., *descr.* (*Satureia rigida* Bartr. ex Benth.). Florida (*Pycnothymus rigidus* Small, 1903).
- PLEUDIA** Raf. Fl. Tellur. 3:94. 1836 [1837], *descr.*=*Salvia* Linn.
- egyptiaca* Raf. ex Jacks*. Ind. Kew. 2:562. 1894 (*Salvia aegyptiaca* Linn.). Eurasia.
- PLEURADENIA** Raf. Neogen. 2. 1825, *descr.*=*Collinsonia* Linn.
- precox* Raf. ex Jacks*. Ind. Kew. 2:562. 1894 (*Collinsonia praecox* Walt.). Southeastern United States=? *Collinsonia canadensis* Linn. (? *C. scabriuscula* Ait.).
- scabra* Raf. ex Jacks*. l.c. (*Collinsonia scabra* Pers.). Eastern North America=*C. scabriuscula* Ait.=? *C. canadensis* Linn.
- PRUNELLA** Linn. (see *Brunella* Linn.).
- cinerea* Raf. ex Jacks*. Ind. Kew. 2:634. 1894 (*Brunella cinerea* Raf.). Kentucky, Alabama, Florida=*P. vulgaris* Linn.
- cordata* Raf. ex Jacks*. l.c. (*Brunella cordata* Raf.). Alleghany Mountains=*P. vulgaris* Linn.
- heterophylla* Raf. ex Jacks*. l.c. (*Brunella heterophylla* Raf.). Alleghany Mountains=*P. vulgaris* Linn.
- microphylla* Raf. ex Jacks*. l.c. (*Brunella microphylla* Raf.). Alleghany and Kiskatom Mountains=*P. vulgaris* Linn.
- obtusifolia* Raf. ex Jacks*. l.c. (*Brunella obtusifolia* Raf.). Pennsylvania=*P. vulgaris* Linn.
- petiolaris* Raf. ex Jacks*. l.c. (*Brunella petiolaris* Raf.). Kentucky=*P. vulgaris* Linn.
- reticulata* Raf. ex Jacks*. l.c. (*Brunella reticulata* Raf.). Kentucky=*P. vulgaris* Linn.
- rosea* Raf. ex Jacks*. l.c. (*Brunella rosea* Raf.). Alleghany Mountains=*P. vulgaris* Linn.
- sessilifolia* Raf. ex Jacks*. l.c. (*Brunella sessilifolia* Raf.). Florida=*P. vulgaris* Linn.
- #PSALION** Raf. New Fl. N. Am. 4:94. 1836 [1838], *descr.*, subgen. provis. *Vleckia* Raf. (Type *Vleckia bracteata* Raf.); Aut. Bot. 120. 1840, *nom.*=*Lophanthus* Benth.
- PYCNANTHEMUM** Michx. (1803), *nom. conserv.* (*Furera* Adans., 1763; *Koellia* Moench, 1794).
- alatum* Raf. Fl. Ludovic. 40. 1817, *descr.* (*Monarde bouton* Rob. Voy. Louis. 3:388. 1807). Louisiana.
- rosmarinoides* Raf. l.c., *descr.* (*Romarin nain* Rob. l.c., 388). Louisiana.
- PYCNANTHES** Raf. Herb. Raf. 70. 1833, *nom.*; New Fl. N. Am. 4:94, 95. 1836 [1838], *nom.*; Good Book 46. 1840, *nom.*=*praec.*
- **aristata* Raf. New Fl. N. Am. 4:95. 1836 [1838], *nom.* [*Pycnanthemum aristatum* Michx.]. Eastern North America.
- ciliata* Raf. Herb. Raf. 70. 1833, *nom.*; New Fl. N. Am. 4: 95. 1836 [1838], *descr.* Pine barrens of New Jersey; Maryland.
- **glandulosa* Raf. Herb. Raf. l.c., *nom.*; New Fl. N. Am. 4:96. 1836 [1837], *nom.* Long Island, New Jersey, Chesapeake Bay, on the seashore.
- **laxiflora* Raf. New Fl. N. Am. l.c., *nom.* Eastern North America.
- parvifolia* Raf. op. cit. 95, *descr.* Georgia, Florida.
- **pilosa* Raf. l.c., *nom.* [*Pycnanthemum pilosum* Nutt.]. Eastern North America.
- **scabra* Raf. op. cit. 96, *nom.* Eastern North America.
- saxatilis* Raf. l.c., *descr.* Alleghany Mountains of Pennsylvania.
- var. *cuniloides* Raf. l.c., *descr.*
- ***PYNANTHEMUM** Raf. Med. Repos. II. 5:351. 1808, *nom.*, *sphalm.*=*Pycnanthemum* Michx. (1803).
- †**RAFINESQUIA** Raf. Fl. Tellur. 3:82. 1836 [1837], *descr.*; New Fl. N. Am. 3:51. 1836 [1838], *descr.*=*Clinopodium* Linn.
- angustifolia* Raf. New Fl. N. Am. 3:52. 1836 [1838], *descr.* Alabama. Ex *descr.*=seq.
- †*coccinea* Raf. Fl. Tellur. 3:83. 1836 [1837], *descr.* (*Cunila coccinea* Nutt.; *Melissa coccinea* Spreng.; *Cardoquia hookeri* Benth.; Lindl. Bot. Reg. 21: t. 1747. 1835); Fl. N. Am. 3:52. 1836 [1838], *descr.* Florida=*Clinopodium coccineum* (Nutt.) O. Kuntze (*Satureja coccinea* Bertol.; *Calamintha coccinea* Benth.).
- var. *obtusifolia* Raf. New Fl. N. Am. l.c., *descr.*
- RHODORMIS** Raf. Fl. Tellur. 3:93. 1836 [1837], *descr.*=*Salvia* Linn.
- rosaefolia* Raf. ex Jacks*. Ind. Kew. 2:712. 1895 (*Salvia rosaefolia* Sm.). Asia Minor.
- SALVIA** Linn.
- **alabamensis* Raf. Herb. Raf. 79. 1833, *nom.* Alabama.
- ciliata* Raf. Fl. Ludovic. 41. 1817, *descr.* [*Sauge* (*Salvia*) Rob. Voy. Louis. 3:389. 1807]. Louisiana.
- **cuneifolia* Raf. Herb. Raf. 61. 1833, *nom.* Kentucky or Illinois.
- **deltifolia* Raf. l.c., *nom.* Kentucky or Illinois.
- **aegyptiaca* Raf. Fl. Tellur. 3:94. 1836 [1837], *nom.*=*S. aegyptiaca* Linn. Eurasia.
- **forskalei* Raf. Fl. Tellur. 3:94. 1836 [1837], *nom.*=*S. forskohlei* Linn. Asia Minor.
- **glaucia* Raf. Herb. Raf. l.c., *nom.* Kentucky or Illinois.
- **hematodes* Raf. Fl. Tellur. 3:93. 1836 [1837], *nom.* sub. *Hematodes* Raf.=*Salvia hematodes* Linn. Europe.
- **obovata* Raf. ex Perkins. Filson Club. Hist. Quart. 12:216. 1938, *nom.* (*Salvia lyrata* Linn. var. *obovata* Pursh). Eastern North America.
- SATUREIA** Linn.
- fasciculata* Raf. Précis Découv. Somiol. 39. 1814, *descr.* Sicily.
- SCLAREA** Moench; Raf. Fl. Tellur. 3:94. 1836 [1837], *descr.*=*Salvia* Linn.
- **acuta* Raf. Aut. Bot. 122. 1840, *descr.* Siberia?

SCLAREA (*continued*).

- spinosa* Raf. ex Jacks*. Ind. Kew. 2:844. 1895 (*Salvia spinosa* Linn.). Arabia, Mesopotamia.
tingitana Raf. ex Jacks*. l.c. (*Salvia tingitana* Etling.). Morocco=*S. foetida* Lam.
triloba Raf. ex Jacks*. l.c. (*Salvia triloba* Linn. f.). Eastern Europe, Asia Minor.

SCORBIUM Raf. Fl. Tellur. 3:85. 1836 [1837], *descr.*=*Teucrium* Linn.

- spinosa* Raf. l.c., *nom.* (*Teucrium spinosum* Linn.). Mediterranean region.

SCORODONIA Adans.=*Teucrium* Linn.

- **algeriensis* Raf. Specch. Sci. 2:171. 1814, *nom.* (*Teucrium pseudo-scorodonia* Desf.). Western Mediterranean region.
 **hircanica* Raf. l.c., *nom.* (*Teucrium hircanicum* Linn.) Caucasus region, Persia.
 †*scicula* Raf. l.c., *descr.*; Fl. Tellur. 3:85. 1836 [1837], *nom.* Sicily.
trivialis Raf. Fl. Tellur. 3:85. 1836 [1837], *nom.* Hab.?
 **vulgaris* Raf. Specch. Sci. 2:171. 1814, *nom.* (*Teucrium scorodonia* Linn.). Europe.

SCUTELLARIA Linn.

- †*cordifolia* Muhl. Cat. 56. 1813, *nom. subnud.*; Raf. Fl. Ludovic. 138. 1817, *nom.*, *nota*; Benth. in DC. Prodr. 12: 422. 1848, *nom.* in syn. sub *Scutellaria versicolor* Nutt. Eastern North America=*S. ovata* Hill (1768).
deltoidea Raf. Fl. Ludovic. 43. 1817, *descr.* (*Toque 1*, Rob. Voy. Louis. 3:393. 1807). Louisiana.
hastata Raf. op. cit. 44, *descr.* (*Toque 2*, Rob. op. cit. 394). Louisiana.
lateriflora Linn. Eastern North America.
 var. *membranacea* Raf. Med. Fl. 2:82. 1830, *nom.*; Casket 1831:332. 1831, *nom.*; Sat. Eve. Post 10(520): [4]. 1831, *nom.*
 pumila Raf. l.c., *nom.*
 ramosissima Raf. l.c., *nom.*
 rubescens Raf. l.c., *nom.*

- **macrophylla* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.

- **nemorosa* Raf. op. cit. 2:120. 1817, *descr.*; Fl. Ludovic. 170. 1817, *nom.* Long Island (Flatbush)=*S. elliptica* Muhl. (1793); see Fernald, Rhodora 47:201. 1945.

- †*parviflora* Raf. op. cit. 3:356. 1818, *nom.*; M'Murtrie, Sketch. Louisv. 225. 1819, *nom.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 60. 1833, *nom.*; A. Ham. Monogr. Scutell. 37. 1832, *nom.* in syn. sub *Scutellaria gracilis* Nutt. Alleghany Mountains, Ohio, Kentucky=*S. nervosa* Pursh.

- radicata* Raf. Atl. Jour. 1:16. 1832, *descr.* Ohio River.

- **ramulosa* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.

- **tenuifolia* Raf. op. cit. 51, *nom.* Rocky Mountains or Oregon.

- villosa* Raf. Atl. Jour. 1:17. 1832, *descr.* Indiana, Kentucky.

SOBISCO Raf. Fl. Tellur. 3:94. 1836 [1837], *descr.*=*Salvia* Linn.

- japonica* Raf. ex Jacks*. Ind. Kew. 2:928. 1895 (*Salvia japonica* Thunb.). Japan.

STACHYS Linn.

- crenata* Raf. Fl. Ludovic. 42. 1817, *descr.* (*Stachide laineuse à feuilles oblongues* Rob. Voy. Louis. 3:392. 1807). Louisiana.

- dasyanthes* Raf. Précis Découv. Somiol. 39. 1814, *descr.*; Jour. Bot. (Desv.) 4:270. 1814, *descr.* Sicily.

- **feniculum* Raf. Aut. Bot. 121. 1840, *nom.* sub *Vleckia discolor* Raf. Eastern North America=*Stachys foeniculum* Pursh=Agastache foeniculum (Pursh) O. Kuntze.

- **levicaulis* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.

- longifolia* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* *sphalm.* "*Staelry*" *longifolia*. Alleghany Mountains or Ohio.

- **mollis* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.

- revoluta* Raf. Atl. Jour. 1:148. 1832, *descr.* Florida, Louisiana.

- sessiliflora* Raf. l.c., *descr.* Florida.

- ***STYSSOPUS** Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom.* *sphalm.*=*Hyssopus* Linn.

- TEREPIS** Raf. Fl. Tellur. 3:94. 1836 [1837], *descr.*=*Salvia* Linn.

- forskalei* Raf. ex Jacks*. Ind. Kew. 2:1046. 1895 (*Salvia forskohlei* Linn.). Asia Minor.

TEUCRIUM Linn.

- **bracteatum* Raf. Herb. Raf. 61. 1833, *nom.* Kentucky or Illinois.

- **bracteosum* Raf. New Fl. N. Am. 4:97. 1836 [1838], *descr.* (*T. virginicum* auct.). New Jersey, Pennsylvania, Virginia=*Teucrium canadense* Linn.

- **chamepytis* Raf. Med. Fl. 2:267. 1830, *nom.*, *sphalm.*=*T. chamaepitys* Linn. Europe.

- cinereum* Raf. New Fl. N. Am. 4:98. 1836 [1838], *descr.* Cumberland and Cherokee Mountains, eastern Kentucky and Tennessee.

- **fruticosum* Raf. Fl. Tellur. 3:85. 1836 [1837], *nom.* [*T. fruticans* Linn.]. Mediterranean region.

- **glabrum* Raf. Herb. Raf. 61. 1833, *nom.* Kentucky or Illinois.

- lanceolatum* Raf. & Collins New Fl. N. Am. 4:97. 1836 [1838], *descr.* New Jersey to Virginia.

- levigatum* Raf. op. cit. 96, *descr.* Central Western United States.

- **obliquatum* Raf. op. cit. 98, *nom. nov.* *Teucrium virginicum* Linn. Eastern North America=*T. canadense* Linn.

- petiolare* Raf. op. cit. 97, *descr.* Long Island, New Jersey, Virginia.

- riparium* Raf. l.c., *nom. nov.* *Teucrium canadense* Linn. Eastern North America.

- **tomentosum* Raf. Herb. Raf. 61. 1833, *nom.*

- undulatum* Raf. Fl. Ludovic. 42. 1817, *descr.* (*Germandrée* Rob. Voy. Louis. 3:390. 1807). Louisiana.

THYMUS Linn.

- hirtus* Raf. Car. Nuov. Gen. Sp. Sicil. 80. 1810, *descr.*, Stat. Gen. Sicil. 28. 1810, *nom.* Sicily.

- ***TORREYA** Raf. Fl. Tellur. 1:89. 1836 [1837], *nom.*, *sphalm.*=*seq.*

- TORREYA** Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *descr.*; op. cit. 4:194. 207. 1819, *nom.*, *nota* (*Synandra* Nutt., 1818); Fl. Tellur. 1:16. 1836 [1837], *nom.*; Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.*; Good Book 61. 1840, *nom.*, *nota* (*Synandra* Nutt. 1818), non *Torreya* Raf. 1819=*Synandra* Nutt. (1818).

- grandiflora* Raf. Am. Monthly Mag. l.c., *nom.* (*Lamium hispidulum* Michx.; *Synandra grandiflora* Nutt.). Eastern North America=*Synandra hispidula* (Michx.) Baill.

- TRAMBIS** Raf. Fl. Tellur. 3:87. 1836 [1837], *descr.*=*Phlomis* Linn.

- alpina* Raf. l.c., *nom.* (*Phlomis alpina* Pallas). Siberia.

- tuberosa* Raf. l.c., *nom.* (*Phlomis tuberosa* Linn.); Aut. Bot. 118. 1840, *nom.* Europe, Asia.

TRICHOSTEMA Linn.

- **roseum* Raf. Herb. Raf. 68. 1833, *nom.*; Life of Travels 126. 1836, *nom.* Alleghany Mountains of Pennsylvania.

- ***TRICHOSTEMUM** Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* Prob.=*Trichostema* Linn.

- **angustifolium* Raf. l.c., *nom.* Kentucky.

- TRIXAGO** Raf. Fl. Tellur. 3:85. 1836 [1837], *descr.* (*Iva* Dill., non Linn.), non Hall. (1768)=*Teucrium* Linn.

- botrys* Raf. l.c., *nom.* [*Teucrium botrys* Linn.]. Europe, North Africa.

- **scordium* Raf. l.c., *nom.* [*Teucrium scordium* Linn.]. Eurasia, North Africa.

- ***TULLYA** Raf. New Fl. N. Am. 4:95. 1836 [1838], *nom.*, *nota*=*Tullia* Leavenw. (1830)=*Pycnanthemum* Michx. (1803), *nom. conserv.* (*Furera* Adans., 1763; *Koellia* Moench, 1794).

- #**VIMENERBA** Raf. Fl. Tellur. 3:86. 1836 [1837], *descr.*, subgen. *provis.* *Ajuga* Linn. (Type, *Teucrium salicifolium* Linn.)=*Ajuga* Linn.

- ***VLECHIA** Raf. Fl. Tellur. 3:89. 1836 [1837], *nom.* sub *Vleckia* Raf., *sphalm.*=*seq.*

- VLECKIA** Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Hyssopus nepetoides* Linn.); Jour. Bot. (Paris) 2:170. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.*, *nota* (*Hyssopus nepetoides* Linn.); op. cit. 4:194. 1819, *nom.*; Fl. Tellur. 3:89. 1836 [1837], *descr.*; New Fl. N. Am. 4:94. 1836 [1838], *nom.*=*Lophanthus* Benth. 1829 (non Forst. 1776)=Agastache (Clayton) O. Kuntze (1891).

- **alba* Raf. Fl. Tellur. 3:89. 1836 [1837], *nom.*=*V. albescens* Raf.?

- **albescens* Raf. Aut. Bot. 121. 1840, *descr.* Pennsylvania to Illinois.

- **angustifolia* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
anisata Raf. Fl. Tellur. 3:89. 1836 [1837], *nom.* (*Lophanthus anisatus* Benth.). Central United States=Agastache foeniculum (Pursh) O. Kuntze.
bracteata Raf. Herb. Raf. 62. 1833, *nom.*; New Fl. N. Am. 4:94. 1836 [1838], *descr.* Florida.
**bracteosa* Raf. Aut. Bot. 120. 1833, *descr.* Florida.
†*chinensis* Raf. Fl. Tellur. 3:89. 1836 [1837], *nom.* (*Lophanthus chinensis* Benth.⁸⁸). China.
**cordata* Raf. Herb. Raf. 68. 1833, *nom.*; Fl. Tellur. 3:89. 1836 [1837], *nom.* Alleghany Mountains.
**cordifolia* Raf. Herb. Raf. 62. 1833, *nom.*; Aut. Bot. 120. 1840, *nom.* (*Hyssopus scrophulariaefolius* Willd.). Pennsylvania, Kentucky=Agastache scrophulariaefolius (Willd.) O. Kuntze.
**discolor* Raf. Aut. Bot. 121. 1830, *descr.* (*Hyssopus anisatus* Nutt.; *Stachys foeniculum* Pursh). Missouri=Agastache foeniculum (Pursh) O. Kuntze.
**incarnata* Raf. op. cit. 120, *descr.* Pennsylvania.
multiflora Raf. Fl. Tellur. 3:89. 1836 [1837], *nom.* (*Nepeta* sp.) Hab.?
nepetoides Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Hyssopus nepetoides* Linn.); Jour. Bot. (Paris) 2:170. 1809, *nom.*; Fl. Tellur. 3:89. 1836 [1837], *nom.* (*Lophanthus nepetoides* Linn.); Aut. Bot. 120. 1840, *nom.*, *nota* (*Hyssopus nepetoides* Linn.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* New England to Missouri=Agastache nepetoides (Linn.) O. Kuntze.
**parvifolia* Raf. Fl. Tellur. 3:89. 1836 [1838], *nom.* Hab.?
**scariosa* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
scrophularifolia Raf. Fl. Tellur. 3:89. 1836 [1837], *nom.* (*Lophanthus scrophulariaefolius* Benth.). Eastern North America=Agastache scrophulariaefolia (Willd.) O. Kuntze.
urticifolia Raf. l.c., *nom.* (*Lophanthus urticifolius* Benth.). North America=Agastache urticifolia (Benth.) O. Kuntze.
#*XEXTALIX* Raf. New Fl. N. Am. 4:95. 1836 [1838], *descr.*, *nom. provis.*, *subgen.* *Pycnanthes* Raf. (Type, *Pycnanthes parvifolia* Raf.)=Pycnanthemum L. C. Rich. (1803), *nom. conserv.*
ZATARENDIA Raf. Fl. Tellur. 3:86. 1836 [1837], *nom.* (Type, *Origanum aegyptiacum* Linn.)=Origanum Linn.
egyptiaca Raf. ex Jacks*. Ind. Kew. 2:1248. 1895 l.c. (*Origanum aegyptiacum* Linn.). Asia Minor.

NOLANACEAE

- #*GASTRINA* Raf. Fl. Tellur. 4:87. 1836 [1838], *descr.*, *subgen.* *Nolana* Linn. (Type *Nolana inflata* Ruiz & Pavon).
#*TOHYPA* Raf. Fl. Tellur. 4:87. 1836 [1838], *descr.*, *subgen.* *Nolana* Linn. (Type *Nolana prostrata* Linn.).
#*PERIESTA* Raf. Fl. Tellur. 4:87. 1836 [1838], *descr.*, *subgen.* *Nolana* Linn. (Type *Nolana coronata* Ruiz & Pavon).
PERILOBA Raf.⁸⁴ Fl. Tellur. 4:87. 1836 [1838] (*Gubleria* Gaudich., 1842-46; *Sorema* Lindl., 1844).
paradoxa Raf. l.c., *descr.* (*Nolana paradoxa* Lindl. Bot. Reg. 10: t. 865. 1825; Sims, Bot. Mag. 52: t. 2604. 1825). Chile.
#*SPATULINA* Raf. Fl. Tellur. 4:87. 1836 [1838], *nom. subnud.*, *subgen.* *Nolana* Linn. (Type *Nolana spathulata* Ruiz & Pavon).

SOLANACEAE

- ALICABON* Raf. Sylva Tellur. 56. 1838, *descr.*=Physalis Linn.
barbadense Raf. op. cit. 57, *nom.* (*Physalis barbadensis* Jacq.). West Indies=Physalis pubescens Linn.
somnifer Raf. op. cit. 56, *nom.* (*Physalis somnifera* Linn.) Mediterranean region=Withania somnifera (Linn.) Dun.
AMPHIPLEIS Raf. Fl. Tellur. 3:75. 1836 [1837], *descr.*=Nicotiana Linn.
fetida Raf. l.c., *descr.* (*Nicotiana multivalvis* Lindl. Bot. Reg. 13: t. 1057. 1827). Columbia River=Nicotiana quadrivalvis Pursh.

⁸⁸ Levin, Act. Inst. Bot. Komarov. 5:271. 1941, cited the name as *Lophanthus chinensis* "(Raf.) Benth.," not realizing that Bentham originated the name eight years before Rafinesque concerned himself with it.

⁸⁴ By some curious error *Periloba* Raf. was rejected, *Nothoscordium* Kunth (1843) having been conserved against it. The latter is a liliaceous genus, and *Periloba* Raf. has nothing to do with it; see Johnston, Contr. Gray, Herb. 85:104-105. 1929.

- quadrivalvis* Raf. l.c., *nom.* (*Nicotiana quadrivalvis* Pursh). Northwestern United States.
ANTIMION Raf. Aut. Bot. 109. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=Lycopersicon Hill (1765)=Lycopersicon Mill. (1754).
tomentosum Raf. l.c., *descr.*; Pennell, l.c., *nom.* (*Solanum peruvianum* Jacq.?). Peru.
APEMON Raf. Fl. Tellur. 2:11. 1836 [1837], *descr.*=Datura Linn.
crassicaule Raf. l.c., *descr.* (*Datura ceratocaula* Ortega; *Datura macrocaulis* Roth; Lindl. Bot. Reg. 12: t. 1031. 1827; Hook. Bot. Mag. 61: t. 3352. 1834). Tropical America=Datura ceratocaula Jacq.
ARTORHIZA Raf. Aut. Bot. 138. 1840, *nom. nov. provis* Parmentiera Raf.; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=Solanum Linn.
BLENCOCOËS Raf. ex Jacks*. Ind. Kew. 1:311. 1893, *sphalm.*=Nierembergia Ruiz & Pavon (1794).
filicaulis Raf. ex Jacks*. l.c. ([*Siphonema filicaulis* Raf.]; *Nierembergia "linearifolia"* Jacks. l.c., *sphalm.* [*linariaefolia* Grah.]). Chile=Nierembergia linariaefolia Grah.
longiflora Raf. ex Jacks*. l.c. [*Siphonema longiflora* Raf.]. Paraguay=Nierembergia calycina Hook.
**BLENOCOËS* Raf. Fl. Tellur. 3:75. 1836 [1837], *descr.* (*Blennochois* Reneaulme Spec. Hist. Nat. 38. 1611)=Nicotiana Linn.
**glutinosa* Raf. l.c., *descr.* (*Nicotiana glutinosa* Linn.); Aut. Bot. 111. 1840, *nom.* Peru.
CANTALEA Raf. Sylva Tellur. 54. 1838, *nom. alt.* Trozelia Raf. (1838)=Lycium Linn.
CERANTHERA Raf. Am. Monthly Mag. Crit. Rev. 2:176. 1818, *nom.* (*Solanum heterandrum* Pursh); op. cit. 4:188. 1819, *nom.* (*Androcera* Nutt.); Jour. Phys. Chim. Hist. Nat. 89:257. 1819, *nom.* (*Solanum heterandrum* Pursh; *Androcera* Nutt.); Ann. Gén. Sci. Phys. 8:269. 1821, *nom.* (*Androcera* Nutt.); Aut. Bot. 110. 1840, *nom.*, *nota.* (*Androcera lobata* Nutt.; *Solanum heterandrum* Pursh), non Beauv. (1805)=Solanum Linn.
heterandra Raf. ex Jacks*. Ind. Kew. 1:483. 1893 (*Solanum heterandrum* Pursh). Missouri=Solanum rostratum Dunal (*Androcera lobata* Rydb.).
CODYLIS Raf. Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.*, *gen. vel subgen.*; Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.* (*Nicotiana quadrivalvis* Pursh). Western United States=Solanum Linn.
DATURA Linn.
stramonium Linn.; Raf. Med. Fl. 1:147. 1828, *iter.* Man. Med. Bot. 147. 1841. Eastern North America.
var. alba Raf. op. cit. 148, *descr.*
angustifolia Raf. l.c., *descr.*
cordata Raf. l.c., *descr.*
meteloides Raf. l.c., *descr.*
physaloides Raf. l.c., *descr.*
tatuloides Raf. l.c., *descr.*
DEPREA Raf. Sylva Tellur. 57. 1838, *descr.*=Athenaea Sendtn. (1846), *nom. conserv.* (*Deprea* Raf., 1838).
orinocensis Raf. l.c., *nom.* (*Physalis orinocensis* H.B.K.). Venezuela=Withania orinocensis (H.B.K.) Dun.
xalapensis Raf. l.c., *nom.* (*Physalis xalapensis* H.B.K.). Mexico=Athenaea xalapensis (H.B.K.) Hemsl.
DIAMONON Raf. Fl. Tellur. 2:76. 1836 [1837], *descr.*=Solanum Linn.
coriaceum Raf. l.c., *descr.* (*Solanum coriaceum* Hook. Bot. Mag. 54: t. 2708. 1827). Mexico=Solanum havanense Jacq.
DIPLUKION Raf. Sylva Tellur. 53. 1838, *descr.*=Iochroma Benth. (1845), *nom. conserv.* (*Diplukion* Raf., 1838, *Val-teta* Raf., 1838).
cornifolium Raf. l.c., *nom.* (*Lycium cornifolium* H.B.K.). Ecuador=Iochroma cornifolia (H.B.K.) Miers.
loxense Raf. l.c., *nom.* (*Lycium loxense* H.B.K.). Ecuador=Iochroma loxensis (H.B.K.) Miers.
umbrosum Raf. l.c., *nom.* (*Lycium umbrosum* H.B.K.). Colombia=Iochroma umbrosa (H.B.K.) Miers.
DISKION Raf. Sylva Tellur. 55. 1838, *descr.*, *nom. nov.* *Saracha* Ruiz & Pavon "non Lin. auct." [i.e. *Saraca* Linn.] =Saracha Ruiz & Pavon (1794).
EPHAIOLA Raf. Sylva Tellur. 124. 1838, *descr.*=Acnistus Schott (1829).

EPHAIOLA (*continued*).

- odorata* Raf. l.c., *nom.*, *nota*. (*Atropa arborescens* Linn.; *Perderlea arborescens* Raf.). West Indies=Acnistus arborescens (Linn.) Schlecht.
- EPLATEIA** Raf. Sylva Tellur. 57. 1838, *descr.*=Withania Pauq. (1824), *nom. conserv.* (*Physaloides* Moench, 1794, non Boehm. 1760).
- arborescens* Raf. l.c., *nom.* (*Physalis arborescens* Linn.). Mexico=Withania arborescens (Linn.) Dun.
- EUCAPNIA** Raf. Fl. Tellur. 3:74. 1836 [1837], *descr.*=Nicotiana Linn.
- repanda* Raf. l.c., *descr.* (*Nicotiana repanda* Lehm.; Sims, Bot. Mag. 51: t. 2484. 1824). Cuba.
- EVOISTA** Raf. Sylva Tellur. 56. 1838, *descr.*=Lycium Linn.
- caroliniana* Raf. l.c., *descr.* (*Lycium carolinianum* sensu Michx.). Florida.
- spinosa* Raf. l.c., *descr.* (*Lycium tetrandrum* Thunb.). South Africa.
- EXODECONUS** Raf. Sylva Tellur. 57. 1838, *descr.*=Physalis Linn.
- prostratus* Raf. l.c., *nom.*, *nota* (*Physalis prostrata* Domb. ex L'Hérit.). Peru.
- *GRABUSKIA** Raf. Sylva Tellur. 158. 1838, *nom.*, *nota* sub *Pukanthus* Raf.=Grabowskia Schlecht. (1832).
- HUANUCA** Raf. Sylva Tellur. 54. 1838, *descr.*, non Cav. (1801)=Acnistus Schott (1829).
- spathulata* Raf. l.c., *descr.* (*Lycium spathulatum* Ruiz & Pavon). Peru=Acnistus spathulatus (Ruiz & Pavon) G. Don.
- KOKABUS** Raf. Sylva Tellur. 55. 1838, *descr.*=Acnistus Schott (1829).
- umbellatus* Raf. l.c., *nom.* [*Atropa umbellata* Ruiz & Pavon]. Peru=Acnistus umbellatus (Ruiz & Pavon) Miers.
- KUKOLIS** Raf. Sylva Tellur. 55. 1838, *descr.*=Hebecladus Miers (1845), *nom. conserv.* (*Utikona* Raf. 1838; *Kukolis* Raf., 1838).
- bicolor* Raf. l.c., *nom.* [*Atropa bicolor* Ruiz & Pavon]. Peru=Hebecladus bicolor (Ruiz & Pavon) Miers.
- LANGSDORFIA** Raf. Fl. Tellur. 3:74. 1836 [1837], *descr.*, non Leandro (1817)=Nicotiana Linn.
- *tristis* Raf. l.c., *descr.* (*Nicotiana tristis* Comm.). Buenos Aires.
- viridiflora* Raf. l.c., *descr.* (*Nicotiana langsdorffii* Schrank; Sims Bot. Mag. 52: t. 2555. 1825). Brazil.
- LEVANA** Raf. Aut. Bot. 15. 1840, *nom. alt.* *Vestia* Willd.; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.*, *nota*=*Vestia* Willd. (1809).
- uniflora* Raf. l.c., *nom. alt.* *Vestia lycioides* Willd.; Pennell, l.c., *nom.*, *nota*. Chile=*Vestia lycioides* Willd.
- LOMERIA** Raf. Sylva Tellur. 56. 1838, *descr.*=Cestrum Linn.
- purpurea* Raf. l.c., *nom.* (*Cestrum longiflorum* Ruiz & Pavon). Peru.
- #MINON** Raf. Aut. Bot. 108. 1840, *descr.*, subgen. *Solanum* Linn. (Type *Solanum pseudocapsicum* Linn.).
- OPLUKION** Raf. Sylva Tellur. 53. 1838, *descr.*=Lycium Linn.
- afrum* Raf. l.c., *nom.* (*Lycium afrum* Linn.). South Africa.
- horridum* Raf. l.c., *nom.* (*Lycium horridum* Thunb.). South Africa=*Lycium tetrandrum* Thunb.=*L. capense* Mill.
- OPSAGO** Raf. Sylva Tellur. 54. 1838, *descr.*=Withania Pauq. (1824), *nom. conserv.* (*Physaloides* Moench, 1794, non Boehm., 1760).
- cordata* Raf. op. cit. 55, *descr.* (*Atropa frutescens* Linn.). Spain, Sicily=Withania frutescens (Linn.) Pauq.
- suberosa* Raf. l.c., *descr.* (*Physalis suberosa* Cav. l.c. 2:1. t. 102. 1793). Spain=Withania frutescens (Linn.) Pauq.
- *ORINOCOA** Raf. Sylva Tellur. 57. 1838, *nom. alt.* *Deprea* Raf.=Athenaea Sendtn. (1846), *nom. conserv.* (*Deprea* Raf., 1838).
- *OTILIX** Raf. Med. Fl. 2:87. 1830, *descr.* (Type *Solanum lycioides* Linn.). Peru=Solanum Linn.
- PARMENTIERA** Raf. Aut. Bot. 108. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, non DC. 1838=Solanum Linn.
- *balduini* Raf. op. cit. 109, *descr.* Uruguay.
- edulis* Raf. op. cit. 108, *descr.* (*Solanum tuberosum* Linn.); Pennell, l.c., *nom.*, *nota*. Peru.
- PEDERLEA** Raf. Sylva Tellur. 54. 1838, *descr.*=Acnistus Schott (1829).
- agregata* Raf. l.c., *descr.* (*Lycium aggregatum* Ruiz & Pavon). Peru=Acnistus campanulatus (Lam.) Merr. Jour. Arnold Arb. 29:213. 1948 (*A. aggregatus* Miers).

- arborescens* Raf. l.c., *descr.* (*Atropa arborescens* Linn.). Mexico=Acnistus arborescens (Linn.) Schlecht.
- cestroides* Raf. l.c., *nom.* (*Cestrum campanulatum* Lam.). South America=Acnistus aggregatus Miers=A. campanulatus (Lam.) Merr.
- PERIETERIS** Raf. Sylva Tellur. 3:74. 1836 [1838], *nom. alt.* *Langsdorfia* Raf.=Nicotiana Linn.
- tristis* Raf. l.c., *nom. alt.* *Langsdorfia tristis* Raf. (*Nicotiana tristis* Sm.). Buenos Aires.
- viridiflora* Raf. l.c., *nom. alt.* *Langsdorfia viridiflora* Raf. (*Nicotiana langsdorffii* Schrank; Sims, Bot. Mag. 52: t. 2555. 1825). Brazil.
- PETAGNIA** Raf. Specch. Sci. 1:157. 1814, *descr.*; Précis Découv. Somiol. 1814 (p. 4 of cover), *nom.*; Jour. Bot. (Desv.) 4:277 (err. 177). 1814, *nom.*, non Guss. (1826)=*Solanum* Linn.
- rosea* Raf. Specch. Sci. 1:158. 1814, *descr.* Haiti.
- PETUNIA** Juss.
- *longiflora* Raf. Aut. Bot. 112. 1840, *descr.* Uruguay (Montevideo).
- *odorata* Raf. l.c., *descr.* Brazil.
- PHYSALIS** Linn.
- *daturifolia* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* (*daturefolia*); Herb. Raf. 60. 1833, *nom.* Kentucky.
- *floridana* Raf. Herb. Raf. 79. 1833, *nom.* Florida.
- *heterophylla* Raf. op. cit. 60, *nom.* Kentucky or Illinois.
- *megaphylla* Raf. op. cit. 67, *nom.* Cumberland Mountains.
- *parviflora* Raf. op. cit. 60, *nom.* Kentucky or Illinois.
- *petiolaris* Raf. l.c., *nom.* Kentucky or Illinois.
- *reticulata* Raf. l.c., *nom.* Kentucky or Illinois.
- PLICULA** Raf. Sylva Tellur. 55. 1838, *descr.*=Acnistus Schott (1829).
- umbellata* Raf. l.c., *nom.* (*Lycium umbellatum* Ruiz & Pavon). Peru=Acnistus umbellatus (Ruiz & Pavon) Miers.
- PUKANTHUS** Raf. Sylva Tellur. 53. 1838, *descr.*; op. cit. 158, *nom.*, *nota*=Grabowskia Schlecht. (1832).
- odoratus* Raf. l.c., 53, *descr.* (*Lycium boerhaviaefolium* Linn.; *L. heterophyllum* Murr.; *Ehretia halmifolia* L'Hérit.). Peru=Grabowskia boerhaviaefolia (Linn.) Schlecht.
- QUINCULA** Raf. Atl. Jour. 1:145. 1832, *descr.*=Physalis Linn.
- lobata* Raf. l.c., *nom.* (*Physalis lobata* Torr.). Rocky Mountains.
- SCHIZANTHUS** Ruiz & Pavon
- *versicolor* Raf. Herb. Raf. 49. 1833, *nom.* Rocky Mountains or Oregon.
- SCHUENKIA** Raf. Princ. Somiol. 30. 1814, *nom.*=Schwenkia Linn.
- SCUBULON** Raf. Aut. Bot. 109. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:94. 1921, *nom.*=Lycopersicon Mill. (1754).
- *humboldtii* Raf. l.c., *descr.* (? *Solanum humboldtii* Willd.). South America=Lycopersicon esculentum Mill.
- incanum* Raf. l.c., *descr.*; Pennell, l.c., *nom.* Peru.
- SIPHAULAX** Raf. Fl. Tellur. 3:74. 1836 [1837], *descr.*=Nicotiana Linn.
- glabra* Raf. l.c., *descr.* (*Nicotiana glauca* Grah. ex Hook. Bot. Mag. 55: t. 2837. 1828). Buenos Aires.
- *SIPHONEMA** Raf. Fl. Tellur. 3:75. 1836 [1837], *descr.*=Nierembergia Ruiz & Pavon (1794).
- *filicaulis* Raf. op. cit. 76, *descr.* (*Nierembergia filicaulis* Lindl. Bot. Reg. 19: t. 1649. 1834; Hook. Bot. Mag. 61: t. 3370. 1834). Argentina=Nierembergia linariaefolia Grah.
- *longiflora* Raf. l.c., *descr.* (*Nierembergia calycina* Hook. Bot. Mag. 61: t. 3371. 1834). Argentina.
- SOLANUM** Linn.
- *bidentatum* Raf. Aut. Bot. 108. 1840, *descr.* Italy, Sicily.
- *carolinianum* Raf. Western Rev. Miscel. Mag. 2:93. 1819, *nom.* Kentucky=S. carolinense Linn.?
- *chenopodium* Raf. Aut. Bot. 107. 1840, *descr.* (*Solanum nigrum* Linn. "var. undatum"). Europe=Solanum nigrum Linn.
- *dimidiatum* Raf. l.c., *descr.* Arkansas, Texas, New Mexico.
- dulcamara* Linn.; Raf. Med. Fl. 2:87. 1830. Europe and North America.
- var. *heterophylla* Raf. l.c., *nom.*
- isophylla* Raf. l.c., *descr.*
- maritima* Raf. l.c., *descr.*
- pandurata* Raf. l.c., *descr.*
- repens* Raf. l.c., *descr.*

- **emulans* Raf. Aut. Bot. 107. 1840, *descr.* (*Solanum virginicum* auct. Am.). New England to Kentucky=*Solanum virginianum* Linn.=*S. carolinense* Linn.
- **exaratum* Raf. l.c., *descr.* (*Solanum nigrum* Linn., "var."). Europe=*Solanum nigrum* Linn.
- **floridanum* Raf. l.c., *descr.* Florida.
- **ludovicianum* Raf. Fl. Ludovic. 45. 1817, *descr.* (*Morelle* 1 Rob. Voy. Louis. 3:398. 1807). Louisiana.
- **obliquatum* Raf. Aut. Bot. 106. 1840, *descr.* Florida.
- **pilosum* Raf. op. cit. 108, *descr.* (? *Solanum decurrens* Balb.). South America.
- STIMENES** Raf. Fl. Tellur. 3:76. 1836 [1837], *descr.*=*Nierembergia* Ruiz & Pavon (1794).
- gracilis* Raf. l.c., *descr.* (*Nierembergia gracilis* Hook. Bot. Mag. 58: t. 3108. 1831). Uruguay.
- STIMOMPHIS** Raf. Fl. Tellur. 3:76. 1836 [1837], *descr.*=*Salpiglossis* Ruiz & Pavon (1794).
- linearis* Raf. l.c., *descr.* (*Salpiglossis linearis* Hook. Bot. Mag. 60: t. 3256. 1833; *Nierembergia intermedia* Grah.). Buenos Aires=*Salpiglossis linearis* Hook.
- STIMORYNE** Raf. Fl. Tellur. 3:76. 1836 [1837], *descr.*=*Petunia* Juss. (1803).
- purpurea* Raf. l.c., *descr.* (*Nierembergia phoenicea* G. Don; *Salpiglossis integrifolia* Hook. Bot. Mag. 58: t. 3113. 1831). Uruguay=*Petunia violacea* Lindl.
- TEREMIS** Raf. Sylva Tellur. 53. 1838, *descr.*=*Lycium* Linn. elliptica Raf. op. cit. 54, *descr.* (*Lycium barbarum* Linn.). North Africa.
- turbinata* Raf. l.c., *descr.* (*Lycium turbinatum* Loisel.; *L. halmifolium* Mill.). China=*Lycium chinense* Mill.
- TRILIENA** Raf. Sylva Tellur. 54. 1838, *nom. alt.* *Pederlea* Raf. (1838)=*Acnistus* Schott (1829).
- TROZELIA** Raf. Sylva Tellur. 54. 1838, *descr.*=*Acnistus* Schott (1829).
- umbellata* Raf. l.c., *descr.* (*Lycium umbellatum* Ruiz & Pavon Fl. Peruv. 2:45. t. 182. 1799). Peru=*Acnistus umbellatus* (Ruiz & Pav.) Miers.
- ULTICONA** Raf. Sylva Tellur. 55. 1838, *descr.*=*Hebecladus* Miers (1845), *nom. conserv.* (*Kukolis* Raf., 1838; *Ulticonia* Raf., 1838).
- aspera* Raf. l.c., *nom.* (*Atropa aspera* Ruiz & Pavon). South America=*Hebecladus asperus* (Ruiz & Pavon) Miers.
- biflora* Raf. l.c., *nom.* (*Atropa biflora* Ruiz & Pavon). South America=*Hebecladus biflorus* (Ruiz & Pavon) Miers.
- viridiflora* Raf. l.c., *nom.* (*Atropa viridiflora* H.B.K.). South America=*Hebecladus viridiflorus* (H.B.K.) Miers.
- VALTETA** Raf. Sylva Tellur. 53. 1838, *descr.*=*Ioichroma* Benth. (1845), *nom. conserv.* (*Diplukion* Raf., 1838; *Valteta* Raf., 1838).
- fuchsioides* Raf. l.c., *nom.* (*Lycium fuchsioides* Humb. & Bonpl.). Peru=*Ioichroma fuchsioides* (Humb. & Bonpl.) Miers.
- gesnerioides* Raf. l.c., *nom.* (*Lycium gesnerioides* H.B.K.). Peru=*Ioichroma gesnerioides* (H.B.K.) Miers.
- WADEA** Raf. Sylva Tellur. 56. 1838, *descr.*=*Cestrum* Linn. latifolia Raf. l.c., *nom.* (*Cestrum latifolium* Lam.). Trinidad.

SCROPHULARIACEAE³⁵

- AGALINIS** Raf. New Fl. N. Am. 2:61. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*
- aphylla* Raf. op. cit. 65, *descr.* (*Gerardia aphylla* Nutt.). Carolina to Florida=*Gerardia aphylla* Nutt.
- corymbosa* Raf. op. cit. 63, *descr.* Carolina, Florida=? *A. purpurea* (Linn.) Pennell.
- fasciculata* Raf. l.c., *descr.* (*Gerardia fasciculata* Ell.). Sea Islands of Carolina=*Gerardia fasciculata* Ell.
- filifolia* Raf. op. cit. 65, *descr.* (*Gerardia filifolia* Nutt.). Florida=*Gerardia filifolia* Nutt.
- **glauca* Raf. l.c., *nom. sub A. microphylla* Raf. Hab.?
- longifolia* Raf. op. cit. 62, *descr.* New Jersey to Virginia=*A. purpurea* (Linn.) Pennell.
- maritima* Raf. l.c., *descr.* (sphalm. "*Agalims*") (*Gerardia maritima* Raf.; *Gerardia purpurea* Linn. var. *crassifolia* Pursh). New England to Chesapeake Bay=*Gerardia maritima* Raf.

³⁵ For reduction of various Rafinesque genera and species native of eastern North America see Pennell *The Scrophulariaceae of Eastern Temperate North America*. Acad. Nat. Sci. Philadelphia Monog. 1: i-xiv. 1-650, illus., 1935.

- var. *gracilis* Raf. l.c., *descr.*
- pumila* Raf. l.c., *nom.*
- microphylla* Raf. op. cit. 65, *descr.* Florida=*Gerardia aphylla* Nutt.
- obtusifolia* Raf. op. cit. 64, *descr.*, non Benth. Western Tennessee, Alabama, Florida=*Gerardia obtusifolia* (Raf.) Pennell.
- palustris* Raf. op. cit. 62, *descr.* (*Gerardia purpurea* Linn.). New England to Carolina=*Agalinis purpurea* (Linn.) Pennell.
- var. *corymbosa* Raf. l.c., *descr.*
- divaricata* Raf. l.c., *descr.*
- ramosissima* Raf. l.c., *nom.*
- virgata* Raf. l.c., *nom.*
- perennis* Raf. op. cit. 63, *descr.* (*Gerardia linifolia* Nutt.). Carolina to Florida=*Agalinis linifolia* (Nutt.) Britton.
- plukenetii* Raf. l.c., *descr.* (*Gerardia plukenetii* Ell.) Carolina=*Gerardia plukenetii* Ell.
- setacea* Raf. op. cit. 64, *descr.* (*Gerardia setacea* Walt.). New Jersey to Alabama, Kentucky and Illinois=*Gerardia setacea* Walt.
- var. *humilis* Raf. l.c., *descr.*
- major* Raf. l.c., *descr.*
- tenuifolia* Raf. l.c., *descr.* (*Gerardia tenuifolia* Vahl). Canada to Florida and Missouri=*Gerardia tenuifolia* Vahl.
- var. *humilis* Raf. l.c., *descr.*
- paniculata* Raf. l.c., *nom.*
- ramosissima* Raf. l.c., *descr.*
- saxatilis* Raf. l.c., *descr.*
- virgata* Raf. op. cit. 62, *descr.*, non *Gerardia virgata* H.B.K. Southern New Jersey=*G. racemulosa* Pennell.
- ALLOPLEIA** Raf. Med. Fl. 2:109. 1830, *descr.*; Fl. Tellur. 4: 56. 1836 [1838], *descr.*=*Sibthorpia* Linn.
- †*rotundifolia* Raf. Fl. Tellur. l.c., *descr.* (*Veronica rotundifolia* Ruiz & Pavon). Peru=*Sibthorpia* sp.
- #**ALPONICA** Raf. Fl. Tellur. 4:55. 1836 [1838], *descr.*, subgen. *Veronica* Linn. (Type *Veronica alpina* Linn.).
- AMBULIA** Lam. (1783)=*Linnophila* R. Br. (1810), *nom. conserv.* (*Ambuli* Adans., 1763).
- alata* Raf. Fl. Tellur. 4:58. 1836 [1838], *descr.* (*Gratiola tetragona* Hook. Bot. Mag. 59: t. 3134. 1832). Buenos Aires=*Stemodia lobelioides* Lehm.
- **micrantha* Raf. Aut. Bot. 44. 1840, *descr.* (*Gratiola micrantha* Nutt.). Florida=*Scoparia dulcis* Linn.
- **psilosa* Raf. l.c., *descr.* (*Gratiola tetragona* Ell.). South Carolina or Georgia=*Ilysanthes dubia* Barnhart=Lindernia dubia (Linn.) Pennell var. *major* (Pursh) Pennell.
- rigida* Raf. Fl. Tellur. 4:58. 1836 [1838], *descr.* (*Gratiola rigida* Raf.; *G. acuminata* Walt.); Aut. Bot. 43. 1840, *nom., nota* (*Gratiola anagallidea* Michx.). Kentucky to Carolina and Texas=*Pagesia acuminata* (Walt.) Pennell (*Mecardonia acuminata* Small).
- var. *angustifolia* Raf. Aut. Bot. 44. 1840, *descr.* Florida.
- cuneata* Raf. l.c., *descr.* Carolina, Alabama.
- microphylla* Raf. op. cit. 43, *descr.* Florida.
- obovata* Raf. l.c., *descr.* Unaka Mountains, North Carolina.
- ANTIRRHINUM** Linn. (*Anthrimum* Raf. sphalm.).
- canadense* Linn.=*Linaria canadensis* (Linn.) Dum.
- var. *assurgens* Raf. Aut. Bot. 155. 1840, *descr.* New Jersey, Virginia.
- gracile* Raf. l.c., *nom.*
- ramosum* Raf. l.c., *nom.*
- simplex* Raf. l.c., *nom.*
- surculosum* Raf. l.c., *nom.*
- **crassifolium* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
- **junceum* Raf. Aut. Bot. 155. 1840, *nom. nov. provis.* *A. parviflorum* Jacq. Southern Europe.
- linaria* Linn. Europe, North America=*Linaria vulgaris* Mill.
- var. *latifolia* Raf. op. cit. 156, *nom.*
- ramosa* Raf. l.c., *nom.*
- simplex* Raf. l.c., *nom.*
- **micranthes* Raf. op. cit. 159, *nom. sub Antrizon* Raf. (An *Antirrhinum micranthum* Cav. ?).
- ANTRIZON** Raf. Aut. Bot. 155, *nom.*, 159, *descr.* 1840; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*=? *Antirrhinum* Linn.
- tenuifolium* Raf. l.c., *descr.*; Pennell, l.c., *nom.* Siberia.
- #**AOTALIX** Raf. Aut. Bot. 43. 1840, *descr.*, subgen. *Ambulia* Lam. (Type *Ambulia rigida* Raf.)=seq.

- #**AOTILIX** Raf. Atl. Jour. 1:176. 1833, *nom.*, subgen. *Gratiola* Linn. (Type *Gratiola rigida* Raf.); Herb. Raf. 21. 1833, *nom.*, subgen. *Gratiola* Linn.; Fl. Tellur. 4:58. 1836 [1838], *nom.*=*Pagesia* Raf. (1817).
- APENTOSTERA** Raf. New Fl. N. Am. 2:72. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*=*Penstemon* Schmidel, 1762 (*Penstemon* Ait., 1789; *Pentastemon* L'Hérit. 1791), *secundiflora* Raf. New Fl. l.c., *descr.* (*Penstemon scouleri* Lindl. Bot. Reg. 15: t. 1277. 1829). Oregon=*Penstemon scouleri* Lindl.
- triflora* Raf. op. cit. 73, *descr.* (*Chelone nemorosa* Dougl.; Lindl. Bot. Reg. 14: t. 1211. 1829). Oregon=*Penstemon nemorosus* (Dougl.) Trautv.
- APONOA** Raf. Sylva Tellur. 84. 1838, *descr.*=*Limnophila* R. Br. (1810), *nom. conserv.* (*Ambulia* Lam., 1783; *Diceros* Lour., 1790; *Hydropityon* Gaertn. f. 1805).
- repens* Raf. l.c., *descr.* (*Columnea stellata* Lour.). Indo-China (Annam)=? *Limnophila chinensis* (Osb.) Merr.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):350. 1935.
- AUREOLARIA** Raf. New Fl. N. Am. 2:58. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*; see Pennell, Acad. Nat. Sci. Philadelphia Monog. 1:382. 1935.
- cuneifolia* Raf. op. cit. 59, *descr.* Alleghany Mountains=*Aureolaria flava* (Linn.) Farwell.
- glauca* Raf. op. cit. 60, *descr.* (*Gerardia glauca* Muhl.; *G. quercifolia* Pursh; *G. flava* sensu Walt.; *Rhinanthus virginicus* Linn.). Long Island to Carolina and Kentucky=*Aureolaria flava* (L.) Farwell.
- var. *gigantea* Raf. l.c., *descr.* Kentucky.
- var. *purpurea* Raf. l.c., *nom. subnud.*
- levigata* Raf. op. cit. 59, *descr.* (*Gerardia levigata* Raf.; *G. lanceolata* Muhl.). Alleghany and Cumberland Mountains, Pennsylvania to Kentucky=*Aureolaria laevigata* (Raf.) Raf.
- var. *alternifolia* Raf. l.c., *nom.*, *nota.*
- var. *ramosa* Raf. l.c., *nom.*
- **pallida* Raf. op. cit. 70, *nom.* in obs. sub *Ovostima petiolata* Raf. Florida=*A. flava* (Linn.) Farwell, var. *macrantha* Pennell.
- **pedicularis* Raf. op. cit. 61, *nom. alt.* *Panctenis pedicularis* Raf. (*Gerardia pedicularia* Linn.). Eastern North America=*A. pedicularia* (Linn.) Raf. [*pedicularis*].
- var. *pumila* Raf. l.c., *nom.*
- var. *ramosissima* Raf. l.c., *nom.*
- var. *simplex* Raf. l.c., *nom.*
- reticulata* Raf. op. cit. 59, *descr.* Alabama, Florida=*A. flava* (Linn.) Farwell, var. *reticulata* (Raf.) Pennell.
- rupestris* Raf. op. cit. 60, *descr.* (*Gerardia rupestris* Raf.). Alleghany Mountains=*A. flava* (Linn.) Farwell.
- villosa* Raf. op. cit. 59, *descr.* (*Gerardia villosa* Muhl.; *G. flava* Linn.). Eastern North America=*A. virginica* (Linn.) Pennell.
- var. *heterophylla* Muhl. Cat. 58. 1813, *nom.* Raf. l.c., *descr.*
- var. *montana* Raf. l.c., *nom.*
- var. *sinuata* Raf. l.c., *nom.*
- var. *virgata* Raf. l.c., *nom.*
- BARTSIA** Linn.
- **longiflora* Raf. Herb. Raf. 39. 1833, *nom.* Upper Missouri (Mandan Country)=Dakota.
- BAZINA** Raf. Aut. Bot. 44. 1840, *descr.*; Pennell, Bull. Tor. Bot. Club 48:93. 1921, *nom.*=*Lindernia* All. (1756), sect. *Bazina* (Raf.) Pennell.
- nudiflora* Raf. op. cit. 45, *descr.* (*Lindernia grandiflora* Nutt.); Pennell, l.c., *nom.* Florida=*Ilysanthes grandiflora* Benth.=*Lindernia grandiflora* (Nutt.) Pennell.
- BUCHNERA** Linn.
- angustifolia* Raf. New Fl. N. Am. 2:32. 1836 [1837], *descr.*, non Don, 1835. Alabama=*Buchnera floridana* Gandoger (1919).
- levicaulis* Raf. op. cit. 39, *descr.* Florida. An Verbenaceae?
- **missurica* Raf. Herb. Raf. 60. 1833, *nom.*; New Fl. N. Am. 2:32. 1836 [1837], *descr.* Missouri, Illinois=*B. americana* Linn.
- ***CALISTACHIA** Raf. Fl. Tellur. 4:56. 1836 [1838], *nom.*=*seq.*
- CALISTACHYA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:169. 1809, *nom.*; Fl. Tellur. 1:16. 1836 [1837], *nom.*; op. cit. 4:54. 1836 [1838], *nom.* (*Leptandra* Nutt.)=*Veronicastrum* Fabr. 1759; see also *Callistachya* Raf.
- alba* Raf. Med. Repos. et Jour. Bot. (Paris) 11.c., *nom.* (*Veronica virginica* Linn.); A. Gray, Am. Jour. Sci. 40: 227. 1841, *nom.* Eastern North America=*Veronicastrum virginicum* (Linn.) Farwell.
- †**CALLISTACHYA** Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom.*, *nota* (*Veronica virginica* Linn.); op. cit. 4:190. 1819, *nom.*, *nota* (*Leptandra* Nutt.; *Eustachya* Raf.); Jour. Phys. Chim. Hist. Nat. 98:258. 1819, *nom.*, *nota* (*Veronica virginica* Linn.; *Leptandra* Nutt.; *Eustachya* Raf.); Ann. Gén. Sci. Phys. 6:97. 1820, *nom.*; Med. Fl. 2:20. 1830, *nom.*, non *Callistachya* Sm. (1808)=*Veronicastrum* Fabr., 1759.
- sibirica* Raf. ex Jacks*. Ind. Kew. 1:388. 1893 (*Veronica sibirica* Linn.). Siberia=*Veronicastrum* sp.
- virginica* Raf. ex Jacks*. l.c. (*Veronica virginica* Linn.). Eastern North America=*Veronicastrum virginicum* (Linn.) Farwell.
- ***CARPANTHE** Raf. Med. Repos. II. 3:422. 1806, *nom.*; Merr. Am. Fern Jour. 33:46. 1943, *nom.*=*seq.*
- **axillaris* Raf. l.c., *nom.*; Merr. l.c., *nom.* Pennsylvania, New Jersey=*Carpanthus axillaris* Raf.=? *Gratiola virginiana* Linn. var. *aestuariorum* Pennell.
- ***CARPANTHUS**⁸⁶ Raf. Med. Repos. II. 5:357. 1808, *descr.*; Jour. Bot. (Paris) 1:221. 1809, *descr.*; Merr. Am. Fern Jour. 33:46. 1943, *nom.*, *nota*=? *Gratiola* Linn.
- **axillaris* Raf. 11.c., *descr.*; iter. Merr. l.c., *nota*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.* New Jersey, Pennsylvania=? *Gratiola virginiana* Linn. var. *aestuariorum* Pennell.
- ***CHELONANTHUS** Raf. Med. Fl. 2:118. 1830, *nom. nov.* *Chelone* Linn.; Casket 1831:513. 1831, *nom.*; Sat. Eve. Post 10(536):[4]. 1831, *nom.*=*Chelone* Linn.
- CHELONE** Linn.
- capitata* Raf.⁸⁷ Med. Fl. 2:118. 1830, *descr.* Central Western United States=*Chelone glabra* Linn. var. *elatior* Raf.
- elatior* Raf. l.c., *descr.* Eastern United States=*Chelone glabra* Linn. var. *elatior* Raf.
- †*lanceolata* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Med. Fl. 2:117. 1830, *descr.* [*C. glabra* Linn. var. *lanceolata* Nutt. Gen. 2:51. 1818]. Kentucky=*C. glabra* Linn.
- maculata* Raf. Med. Fl. l.c., *descr.* Eastern United States=*C. glabra* Linn.
- purpurea* Raf. op. cit. 118, *descr.* Eastern United States=*C. glabra* Linn.
- **tomentosa* Raf. New Fl. N. Am. 2:20. 1836 [1837], *nom. alt.* *Chlonanthes tomentosa* Raf. Virginia=*Chelone glabra* Linn.
- CHLONANTHES** Raf. New Fl. N. Am. 2:20. 1836 [1837], *nom. nov.* *Chelone* Linn.; Aut. Bot. 19. 1840, *nom.* (*Chelone* Linn.).
- **glabra* Raf. Aut. Bot. 19. 1840, *descr.* (*Chelone glabra* Linn.). North America=*Chelone glabra* Linn.
- **latifolia* Raf. l.c., *nom.* (†*Chelone latifolia* Muhl. Cat. 58. 1813). Kentucky=*Chelone lyoni* Pursh.
- **montana* Raf. l.c., *descr.* Wasioto or Cumberland Mountains=*Chelone montana* (Raf.) Pennell & Wherry=*C. glabra* Linn. var. *elatior* Raf.
- tomentosa* Raf. New Fl. N. Am. 2:20. 1836 [1837], *descr.*; Aut. Bot. 19. 1840, *nom.* Virginia=*Chelone glabra* Linn.
- CHLONANTHUS** Raf. Princ. Somiol. 26. 1814, *nom. nov.* *Chelone* Linn.; Fl. Tellur. 1:84. 1836 [1837], *nom.* (*Chelone* Linn.); New Fl. N. Am. 2:72. 1836 [1837], *nom.* (*Chelone* Linn.).

⁸⁶ Dr. Pennell in lit. thinks that *Carpanthe* (*Carpanthus*) is not a scrophulariaceous plant and suggests *Myriophyllum* Linn. of the Haloragidaceae.

⁸⁷ The first five of the following binomials are thus published by Rafinesque, Med. Fl. 2:117. 1830: "The following are the varieties [of *Chelone glabra* Linn.], which might, perhaps, be deemed as many species." Dr. Pennell considers that Rafinesque proposed them as varieties of *Chelone glabra* Linn., but Rafinesque definitely published them as binomials, and they must be accounted for as such. All are entered in *Index Kewensis*. The entire list is *C. alba* [Moench], *C. maculata* Raf., *C. lanceolata* Raf., *C. obliqua* [Linn.], *C. purpurea* Raf., *C. elatior* Raf., and *C. capitata* Raf.

- **montanus* Raf. Herb. Raf. 67. 1893, *nom.* Cumberland Mountains=*Chelone montana* (Raf.) Pennell & Wherry=*C. glabra* Linn. var. *elator* Raf.
- **tomentosus* Raf. Herb. Raf. 66. 1833, *nom.*=*Chelone glabra* Linn.).
- COLLINIA** Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom.*, *sphalm.*=*Collinsia* Nutt.
- COLLINIANA** Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom. nov.* *Collinsia* Nutt.=seq.
- COLLINSIA** Nutt.
- alba* Raf. Cincinnati Lit. Gaz. 1:85. 1824, *descr.* Virginia=*C. verna* Nutt.
- bicolor* Raf. Cincinnati Lit. Gaz. 1:84. 1824, *descr.* (*Hesperis bicolor* Mill. & Muhl. ex Raf. l.c., in syn.; *Collinsia verna* Nutt.); Herb. Raf. 39. 60. 1833, *nom.*; Atl. Jour. 1:149. 1833, *nom.* (*C. verna* Nutt.), non Benth. (1831-35). Pennsylvania to Illinois and Arkansas=*C. verna* Nutt.
- var. *angustifolia* Raf. Cincinnati Lit. Gaz. l.c., *descr.*
- cordata* Raf. l.c., *descr.*
- integrifolia* Raf. l.c., *descr.*
- latifolia* Raf. l.c., *descr.*
- rotundifolia* Raf. l.c., *descr.*
- verticillata* Raf. l.c., *descr.*
- purpurea* Raf. op. cit. 85. *descr.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; Atl. Jour. 1:18. 1832, *nom.*; op. cit. 149. *descr.*; Herb. Raf. 60. 1833, *nom.* Indiana, Kentucky, Illinois and Missouri=? *C. verna* Nutt.
- var. *cuneata* Raf. Cincinnati Lit. Gaz. l.c., *descr.*
- parviflora* Raf. l.c., *descr.*
- tricolor* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom. nov.* *Collinsia verna* Nutt. Kentucky.
- ***COLLINSIANA** Raf. Am. Monthly Mag. Crit. Rev. 3:271. 273. 1818, *nom. nov. provis.* *Collinsia* Nutt.; op. cit. 4:208. 1819, *nom.*=*Collinsia* Nutt.
- CYMBALARIA** Medic.=*Linaria* Mill. (1752).
- **alpina* Raf. Aut. Bot. 19. 1840, *nom.* (*Linaria alpina* Mill.). Europe=*Linaria alpina* (Linn.) Mill.
- **egyptiaca* Raf. op. cit. 20, *nom.* (*Linaria aegyptiaca* Dum. Cours.). Egypt=Kickxia aegyptiaca (Linn.) Nábélek.
- **triphylla* Raf. l.c., *nom.* (*Linaria triphylla* Mill.). Mediterranean region=*Linaria triphylla* (Linn.) Mill.
- **vulgaris* Raf. l.c., *nom.* (*Linaria cymbalaria* Mill.). Europe=*Cymbalaria muralis* Gaertn. Mey. & Scherb.
- ***CYMBALINA** Raf. Aut. Bot. 156. 1840, *nom. nov. provis.* *Cymbalaria* Medic., sub *Tursitis* Raf.=*Cymbalaria* Medic.
- **rupestris* Raf. l.c., *nom.* (*Tursitis cymbalaria* Raf.; *Antirrhinum cymbalaria* Linn.). Europe=*Linaria cymbalaria* Mill.=*Cymbalaria muralis* Gaertn. Mey. & Scherb.
- †**DASANTHERA** Raf. Fl. Ludovic. 49. 1817, *nom.* sub *Pagesia* Raf. (*Gerardia fruticosa* Pursh); Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.* (*Gerardia fruticosa* Pursh); Jour. Phys. Chim. Hist. Nat. 89:99. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 239. 1820, *descr.*; New Fl. N. Am. 2:68. 1836. [1837], *descr.*=*Penstemon Schmidel* (1762) (*Penstemon* L'Hérit., 1791; *Penstemon* Ait., 1789).
- cuneifolia* Raf. New Fl. N. Am. 2:69. 1836 [1837], *descr.* Florida=*Pagesia acuminata* (Walt.) Pennell.
- fruticosa* Raf. l.c., *descr.* (*Gerardia fruticosa* Pursh). Rocky Mountains or Oregon=*Penstemon fruticosus* (Pursh) Greene.
- DASISTEMA** Raf. New Fl. N. Am. 2:66. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*=*Dasistoma* Raf. (1819).
- **auriculatum* Raf. op. cit. 67, *descr.* Western Kentucky, Illinois=*Dasistoma macrophylla* (Nutt.) Raf.
- **macrophyllum* Raf. l.c., *descr.* (*Seymeria macrophylla* Nutt.). Ohio=*Dasistoma macrophylla* (Nutt.) Raf.
- ***DASISTEMON** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Prob.=*Aureolaria* Raf. (1837).
- **villosum* Raf. l.c., *nom.* Kentucky. Prob.=*Aureolaria virginica* (Linn.) Pennell.
- DASISTOMA** Raf. Jour. Phys. Chim. Hist. Nat. 89:99. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 238. 1820, *descr.* (*Brachygyna* (Benth.) Small, 1903, non Cass., 1827; *Seymeria* Pursh, sect. *Brachygyna* Benth., 1846).
- aurea* Raf. ll.c., *descr.* Kentucky=*D. macrophylla* (Nutt.) Raf.
- auriculata* Raf. ex Jacks*. Ind. Kew. 1:719. 1893 (*Dasistema auriculata* Raf.). Western Kentucky, Illinois=*D. macrophylla* (Nutt.) Raf.
- laevigata* Raf. ex Chapm. Fl. S. U. S. Suppl. 636. 1883, *descr.* Georgia=*Aureolaria laevigata* (Raf.) Raf.
- macrophylla* Raf. ex Jacks*. Ind. Kew. 1:719. 1893 (*Dasistema macrophylla* Raf.). Ohio=*Dasistoma macrophylla* (Nutt.) Raf.
- DASYSTOMA** Raf. ex Endl. Gen. 691. 1839, *nom.* in syn.=*prae.*
- DERWENTIA** Raf. Fl. Tellur. 4:55. 1836 [1838], *descr.*=*Veronica* Linn.
- perfoliata* Raf. l.c., *descr.* (*Veronica perfoliata* R. Br.; Sims. Bot. Mag. 44: t. 1936. 1817). Australia.
- suaveolens* Raf. l.c., *descr.* (*Veronica derwentia* Andr. Bot. Rep. 8: t. 531. 1808; *V. labiata* R. Br.; Hook. Bot. Mag. 63: t. 3461. 1836). Australia=*Veronica derwentia* Andr.
- DITOXIA** Raf. Précis Découv. Somiol. 39. 1814, *descr.*; Jour. Bot. (Desv.) 4:270. 1814, *nom.*, *nota*=*Celsia* Linn.
- betonicifolia* Raf. op. cit. 40, *descr.*; Jour. Bot. l.c. *nom.* (*Celsia betonicifolia* Desf.). North Africa.
- cretica* Raf. ex Jacks*. Ind. Kew. 1:783. 1893 (*Celsia cretica* Linn. f.). Crete.
- lyrata* Raf. Précis Découv. Somiol. 40. 1814, *descr.*, Jour. Bot. l.c., *nom.* (*Celsia cretica* Linn. f.) Sicily, Crete, North Africa=*Celsia cretica* Linn. f.
- ***DITULIUM** Raf. Aut. Bot. 155. 1840, *descr.* sub *Antirrhinum* Linn.=*Diascia* Link & Otto (1820).
- **pinnatum* Raf. l.c., *nom.* (*Antirrhinum unilabiatum* Linn. f.). South Africa=*Diascia unilabiata* (Linn. f.) Benth.
- #**DODECULA** Raf. Fl. Tellur. 4:55. 1836 [1838], *descr.* subgen. *Veronica* Linn. (Type *Veronica glauca* Sibth. & Sm.)=*Veronica* Linn.
- #**ENDASIA** Raf. Med. Fl. 2:110. 1830, *descr.*, subgen. *Veronica* Linn.; Fl. Tellur. 4:55. 1836 [1838], *descr.*, subgen. *Veronica* Linn.=*Veronica* Linn.
- ***ENDOPOGON** Raf. Am. Monthly Mag. Crit. Rev. 3:101. 1818, *nom.*, *nota* (Type *Gratiola acuminata* Walt.), non Raf. 1837. Southeastern United States=*Pagesia* Raf. (1817).
- ***EPLIDIUM** Raf. Aut. Bot. 9. 1840, *nom. nov.* *Peplidium* Delile.
- **humifusum* Raf. l.c., *nom.* (*Peplidium humifusum* Delile). Egypt.
- ***ETORNOTUS** Raf. Aut. Bot. 155. 1840, *descr.*, sub *Antirrhinum* Linn.=*Schweinfurthia* A. Braun (1866).
- **persicus* Raf. l.c., *nom.* (*Antirrhinum papilionaceum* Linn.). Persia=*Schweinfurthia papilionacea* (Linn.) Boiss.
- EUSTACHIA** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*=*Veronicastrum* Heist. (1759).
- **alba* Raf. l.c., *nom.* (*Veronica virginica* Linn.). Eastern North America=*Veronicastrum virginicum* (Linn.) Farwell.
- **purpurea* Raf. l.c., *nom.*=*Eustachya purpurea* Raf.=*Veronica purpurea* Steud. Eastern North America=*prae.*
- EUSTACHYA** Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom. nov.* *Callistachya* Raf.; op. cit. 207, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:258. 1819, *nom.* (*Calistachya* Raf.); Ann. Gén. Sci. Phys. 6:97. 1820, *nom.*, *nota* (*Leptandra* Nutt.); Med. Fl. 2:20. 1830, *nom.*=*Veronicastrum* Fabr. (1759).
- alba* Raf. Ann. Gén. Sci. Phys. 6:97. 1820, *descr.* (*Veronica virginica* Linn.). Eastern United States=*Veronicastrum virginicum* (Linn.) Farwell.
- **cerulea* Raf. l.c., *descr.* (*Veronica sibirica* Linn.). Siberia=*Veronica virginica* Linn. var. *sibirica* (Linn.) Nakai=*Veronicastrum* sp.
- coerulea* Raf. ex DC. Prodr. 10:464. 1846, *nom.* in syn.=*prae.*
- †*japonica* Raf. Ann. Gén. Sci. Phys. l.c., *nom.*, *nota* (*Veronica virginica* sensu Thunb., non Linn.); Steud. Nomencl. ed. 2, 1:618. 1840. Japan=*Veronica virginica* Linn. var. *japonica* Nakai, Bot. Mag. Tokyo 26:170. 1912=*Veronicastrum* sp.
- oppositifolia* Raf. New Fl. N. Am. 2:21. 1836 [1837], *descr.* Appalachian Mountains of Virginia. An Scrophulariaceae?
- purpurea* Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.*; Ann. Gén. Sci. Phys. 6:98. 1820, *descr.* Virginia, Kentucky, Tennessee=*Veronica purpurea* Steud.=*V. virginica* Linn.=*Veronicastrum virginicum* (Linn.) Farwell.
- EUSTAXIA** Raf. Fl. Tellur. 4:56. 1836 [1838], *descr.*, *nom. nov.* *Calistachia* Raf. [*Callistachya*], non Vent.; *Leptandra* Nutt.)=*Veronicastrum* Fabr. (1759).
- alba* Raf. l.c., *nom.* Eastern United States=*Eustachya alba* Raf.=*Veronica virginica* Linn.=*Veronicastrum virginicum* (Linn.) Farwell.

EUSTAXIA (*continued*).

- japonica* Raf. l.c., *nom.* [*Veronica virginica* sensu Thunb.]. Japan=*Veronica virginica* Linn. var. *japonica* Nakai=*Veronicastrum* sp.
- oppositifolia* Raf. l.c., *nom.*=*Eustachya oppositifolia* Raf. Eastern United States. An Scrophulariaceae?
- purpurea* Raf. l.c., *nom.* Eastern United States=*Eustachya purpurea* Raf.=*Veronica purpurea* Steud.=*Veronica virginica* Linn.=*Veronicastrum virginicum* (Linn.) Farwell.
- sibirica* Raf. l.c., *nom.* [*Veronica sibirica* Linn.]. Siberia=*Veronica sibirica* Linn.=*Veronicastrum* sp.
- villosa* Raf. l.c., *nom.* [*Leptandra villosa* Raf.]. North Carolina=*Veronicastrum virginicum* (Linn.) Farwell.
- #**FIMBRULA** Raf. Fl. Tellur. 4:54. 1836 [1838], *descr.*, subgen. *Veronica* Linn., type *V. agrestis* Linn.
- FLAMARIA** Raf. New Fl. N. Am. 2:71. 1836 [1837], *nom. provis.*=*Macranthera* Torr. (1835).
- coccinea* Raf. l.c., *nom. alt.* *Russelia flammea* Raf. (*Gerardia flammea* Bartr. 412. 1791, *descr.*=*Macranthera flammea* (Bartr.) Pennell (*M. lecontei* Torr.).
- FILOSIA** Raf. Fl. Tellur. 4:89. 1836 [1838], *descr.* ("probably a genus"); Aut. Bot. 111. 1840, *nom.*, subgen. *Verbascum* Linn.=*Verbascum* Linn.
- condensata* Raf. Fl. Tellur. l.c., *nom.* (*Verbascum condensatum* Schrad.). Europe, Asia Minor.
- nemorosa* Raf. l.c., *nom.* (*Verbascum nemorosum* Schrad.). Europe, Asia Minor.
- phlomoidea* Raf. l.c., *nom.* (*Verbascum phlomoidea* Linn.). Europe, Asia Minor.
- GERARDIA** Linn.
- **flammea* Bartram⁸⁸ Trav. 412. 1791, *descr.*; Raf. New Fl. N. Am. 2:65, 71. 1836 [1837], *nom.*, *nota*, sub *Agalinis aphylla* Raf. Near Mobile, Alabama=*Macranthera flammea* (Bartr.) Pennell (*M. lecontei* Torr.; *Flamaria coccinea* Raf.; *Russelia flammea* Raf.).
- **glabrata* Raf. Western Rev. Miscel. Mag. 1:94. 1819, *nom.* Kentucky.
- laevigata* Raf. ex Jacks*. Ind. Kew. 1:1022. 1893=*G. laevigata* Raf. Alleghany Mountains and Kentucky=*Aureolaria laevigata* (Raf.) Raf.
- **lanceolata* Muhl. ex Raf. New Fl. N. Am. 2:59. 1836 [1837], *nom.* in syn. sub *Aureolaria laevigata* Raf. est *G. lancifolia* Muhl. Cat. 58. 1813. Carolina.
- leucanthera* Raf. Fl. Ludovic. 50. 1817, *descr.* (*Bignone cocarde* Rob. Voy. Louis. 3:409. 1807); New Fl. N. Am. 2:65. 1836 [1837], *nom.*, *nota* sub *Agalinis aphylla* Raf. Louisiana=*Gerardia tenuifolia* Vahl var. *leucanthera* (Raf.) Pennell.
- **laevigata* Raf. Ann. Nat. Ann. Synop. 13. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Alleghany Mountains and Kentucky=*Aureolaria laevigata* (Raf.) Raf.
- maritima* Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:229. 1809, *descr.*; Am. Monthly Mag. Crit. Rev. 2:174. 1818, *nom.*, *nota*; op. cit. 4:194. 1819, *nom.*, *nota*; Life of Travels 15. 1835, *nom.*; Gerard, Bull. Torr. Bot. Club 12: 37. 1885, *nom.* New Jersey (Egg Harbor). Massachusetts to Virginia, a variety southward to Texas.
- **pedicularis* Raf. New Fl. N. Am. 2:61. 1836 [1837], *nom.* sub *Panctenis* Raf.=*G. pedicularis* Linn. North America=*Aureolaria pedicularis* (Linn.) Raf.
- rupestris* Raf. Atl. Jour. 1:154. 1832, *descr.* Alleghany and Tuscarora Mountains=*Aureolaria flava* (Linn.) Farwell.
- GRATIOLA** Linn.
- brevifolia* Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 21. 1833, *descr.* Texas (Georgia to Tennessee, Florida, Louisiana, and Texas). (*G. drummondii* Benth.).
- callosa* Raf. Aut. Bot. 42. 1840, *descr.* Florida=*G. ramosa* Walt.
- cataracta* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.
- heterophylla* Raf. Aut. Bot. 43. 1840, *descr.* New Jersey to Florida=*G. neglecta* Torr.
- lutea* Raf. Med. Repos. III. 2:333. 1811, *nom. nov.* *G. officinalis* sensu Michx.; Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom.* (*G. officinalis* sensu Michx.) [*G. aurea* Pursh, Fl. Am. Sept. 1:12. 1814]. Newfoundland to Wisconsin and North Dakota southward to Florida.

- **obovata* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
- odorata* Raf. Aut. Bot. 43. 1840, *nom. nov.* *G. virginica* Linn. (non *G. virginiana* Linn.). North America=*G. neglecta* Torr.
- **palustris* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
- rigida* Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 21. 1833, *descr.* Texas=*Pagesia acuminata* (Walt.) Pennell.
- riparia* Raf. ex Benth. in DC. Prodr. 10:419. 1846, *nom.* in syn. sub *Ilysanthes gratioides* (Linn.) Benth.=*Lindernia dubia* (Linn.) Pennell.
- **varians* Raf. ex M'Murtrie, Sketch. Louisv. 218. 1819, *nom.* Kentucky.
- HABERSHAMIA** Raf. Neogen. 2. 1825, *descr.*=*Bacopa* Aubl. (1775), sect. *Bramia* (Lam.) Wettst.
- cuneifolia* Raf. l.c., *nom.* (*Herpestis cuneifolia* Pursh; *Monniera cuneifolia* Michx.); Aut. Bot. 44. 1840, *nom.* Florida=*Bacopa monnieri* (Linn.) Pennell, Proc. Acad. Nat. Sci. Philadelphia 98:94. 1946 (*Bramia monnieri* Pennell).
- HEMIANTHUS** Nutt.
- †*micranthus* Raf. Aut. Bot. 46. 1840, *nom.*, *sphalm.*=*H. micranthemoides* Nutt.; Pennell, Torreya 22:80. 1922, *nom.*, *nota*. North America.
- HEMITOMUS** L'Hérit. (1804)=Alonsoa Ruiz & Pavon (1798).
- **lanceolatus* Raf. Aut. Bot. 19. 1840, *descr.* Florida, West Indies.
- HERPSTIS** Gaertn. f.
- bicolor* Mill. & Muhl. ex Raf. Cincinnati Lit. Gaz. 1:84. 1824. *nom.* sub *Collinsia bicolor* Raf. Pennsylvania=*Collinsia verna* Nutt.
- HYDROPYXIS** Raf. Fl. Ludovic. 94. 1817, *descr.*=? *Bacopa* Aubl. (1775).⁸⁹
- palustris* Raf. l.c., *descr.* (*Pourpier des marais* Rob. Voy. Louis. 3:488. 1807). Louisiana=? *Bacopa monnieri* (Linn.) Pennell, Proc. Acad. Nat. Sci. Philadelphia 98:94. 1946.
- ILYSANTHES** Raf. Ann. Nat. Ann. Synop. 13. 1820, *descr.*; Fl. Tellur. 4:58. 1836 [1838], *descr.*=*Lindernia* All. (1755).
- anagallidea* Raf. Aut. Bot. 46. 1840, *descr.* [*Gratiola anagallidea* Michx.]. Alabama, Kentucky=*Lindernia anagallidea* (Michx.) Pennell.
- attenuata* Raf. ex Benth. in DC. Prodr. 10:419. 1846, *nom.* in syn. sub *Lindernia gratioides* Benth. North America=*Lindernia dubia* (Linn.) Pennell.
- brevipes* Raf. Aut. Bot. 45. 1840, *descr.* New Jersey, Pennsylvania=*Ilysanthes dubia* Barnh.=*Lindernia dubia* (Linn.) Pennell.
- dilatata* Raf. op. cit. 46, *nom.* [*Lindernia dilatata* Muhl. Cat. 59. 1813]; Benth. in DC. Prodr. 10:419. 1846, *nom.* in syn. Pennsylvania, Carolina=*Lindernia anagallidea* (Michx.) Pennell.
- geniculata* Raf. op. cit. 45, *descr.* Long Island and southern New Jersey=? *Lindernia anagallidea* (Michx.) Pennell.
- **monticola* Raf. l.c., *nom.* [*Lindernia monticola* Muhl. Cat. 59. 1813, *nom.*]. Alleghany Mountains=*Lindernia monticola* Muhl. ex Nutt. Gen. Add. 156. 1818, *descr.*
- refracta* Raf. op. cit. 46, *nom.* [*Lindernia refracta* Ell.]. Carolina, Florida=*Lindernia monticola* Muhl.
- riparia* Raf. Ann. Nat. Ann. Synop. 13. 1820, *descr.*; Aut. Bot. 45. 1840, *descr.* (*Lindernia attenuata* Muhl. Cat. 59. 1813, *nom.*); Benth. in DC. Prodr. 10:419. 1846, *nom.* in syn. sub *Ilysanthes gratioides* (Linn.) Benth. Ohio River=*Lindernia dubia* (Linn.) Pennell, var. *riparia* (Raf.) Fernald, Rhodora 44:444. 1942.
- var. *alba* Raf. Aut. Bot. 45. 1840, *nom.*
- angustifolia* Raf. l.c., *nom.*
- cerulea* l.c., *nom.*
- erecta* Raf. l.c., *nom.*
- incarnata* Raf. l.c., *nom.*
- repens* Raf. l.c., *nom.*
- #**IMPULA** Raf. Aut. Bot. 44. 1840, sub *Ambulia micrantha* Raf.; *descr.*, *nom. provis.* subgen. *Ambulia* Raf. Florida=*Scoparia* Linn.
- #**ISONICA** Raf. Fl. Tellur. 4. 54. 1836 [1838], *descr.*, subgen. *Veronica* Linn. (Type *Veronica chamaedrys* Linn.)=*Veronica* Linn.

⁸⁸ See Pennell, F. P. Acad. Nat. Sci. Philadelphia Monog. 1:414. 1935; Merr. Bartonica 23:25-26. 1945.

⁸⁹ Dr. Pennell, in lit., now thinks that the Robin's description was a composite, based in part on *Bramia* and in part on *Centunculus minimus* Linn. of the Primulaceae.

- KURITES** Raf. Fl. Tellur. 2:63. 1836 [1837], *descr.*=*Selago* Linn.
ciliata Raf. op. cit. 64, *descr.* (*Selago ciliata* sensu Choisy). South Africa.
gillii Raf. l.c., *descr.* (*Selago gillii* Hook. Bot. Mag. 57: t. 3028. 1830). South Africa.
- LASIAKE** Raf. Fl. Tellur. 4:89. 1836 [1838], *descr.*=*Verbascum* Linn.
lyratum Raf. ex Jacks*. Ind. Kew. 2:33. 1894 (*Verbascum lyratum* Lam.). Greece=*Celsia cretica* Linn. f.
plicatum Raf. ex Jacks*. l.c. (*Verbascum plicatum* Sibth. & Sm.). Greece.
- LEIOSANDRA** Raf. Fl. Tellur. 4:89. 1836 [1838], *descr.*=*Verbascum* Linn.
crassifolia Raf. l.c., *nom.* (*Verbascum crassifolium* DC.). Europe=*Verbascum montanum* Schrad.
cuspidata Raf. l.c., *nom.* (*Verbascum cuspidatum* Schrad.). Europe=*Verbascum thapsus* Linn.
- LEIOSTEMON** Raf. Neogen. 2. 1825, *descr.*; Atl. Jour. 1:145. 1832, *descr.*=*Penstemon* Schmidel (1762) (*Penstemon* Ait., 1789; *Penstemon* Batsch, 1802).
frutescens Raf. ex Jacks*. Ind. Kew. 2:50. 1894 (*Penstemon frutescens* Lamb.). Northwestern North America.
purpureum Raf. Atl. Jour. 1:145. 1832, *nom.* (*Penstemon ambiguus* Torr.). Central United States=*Penstemon ambiguus* Torr.
- LEPTANDRA** Nutt.=*Veronicastrum* Fabr. (1759).
alba Raf. Med. Fl. 2:21. 1830, *descr.* (*Veronica virginica* Linn.). Eastern United States=*Veronica virginica* Linn.=*Veronicastrum virginicum* (Linn.) Farwell.
var. *angustifolia* Raf. l.c., *nom.*
macrostachya Raf. l.c., *nom.* (*sphalm.* "*macrostachya*").
multicaulis Raf. l.c., *nom.*
polystachya Raf. l.c., *nom.*
quadrifolia Raf. l.c., *nom.*
- **cerulea* Raf. l.c., *nom.* (*Veronica siberica* Linn.; Ind. Kew. 2:61. 1894 ut *caerulea*). Asia=*Veronica siberica* Linn.=*Veronicastrum* sp.
- japonica* Raf. l.c., *nom.* (*Veronica virginica* sensu Thunb.). Japan=*Veronica virginica* Linn. var. *japonica* Nakai=*Veronicastrum* sp.
- **oppositifolia* Raf. Herb. Raf. 65. 1833, *nom.*; New Fl. N. Am. 2:21. 1836 [1837], *nom. alt.* *Eustachya oppositifolia* Raf. Eastern United States=*Veronicastrum virginicum* (Linn.) Farwell.
- purpurea* Raf. Med. Fl. 2:20. f. 59. 1830, *descr.* [*Eustachya purpurea* Raf.]; Herb. Raf. 60. 1833, *nom.* Eastern United States=*Veronicastrum virginicum* (Linn.) Farwell.
var. *heterophylla* Raf. op. cit. 21, *descr.*
pallida Raf. l.c., *descr.*
prolifera Raf. l.c., *descr.*
- **trifolia* Raf. Herb. Raf. 60. 1833, *nom.* Kentucky or Illinois.
- villosa* Raf. Med. Fl. 2:21. 1830, *descr.* North Carolina=*Veronicastrum virginicum* (Linn.) Farwell.
- LEPTEIRIS** Raf. New Fl. N. Am. 2:73. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*=*Penstemon* Schmidel (1763).
parviflora Raf. New Fl. l.c., *descr.* (*Penstemon micranthus* Nutt.). Oregon.
- LIMOSELLA** Linn.
**brachistema* Raf. Am. Monthly Mag. Crit. Rev. 3:273. 1818, *nom.*, *nota* [*Limosella subulata* Ives, 1817]. Eastern United States=*Limosella subulata* Ives.
maritima Raf. Atl. Jour. 1:199. 1833, *nom. alt.* *Ygramela maritima* Raf.=*Limosella subulata* Ives, forma *maritima* (Raf.) Pennell. Eastern United States.
**silesiaca* Raf. l.c., *nom. sub* *Ygramela* Raf. [*Limosella aquatica* Linn. var. *silesiaca* Pers. Syn. 2:167. 1806]. Europe=*L. aquatica* Linn.
- LOPHANTHERA** Raf. New Fl. N. Am. 2:58. 1836 [1837], *descr.*=*Sopubia* Buch.-Ham. (1825).
delphinifolia Raf. ex Jacks*. Ind. Kew. 2:112. 1894 (*Gerardia delphinifolia* Linn.). India=*Sopubia delphinifolia* (Linn.) G. Don.
- ***MACROLLA** Raf. Herb. Raf. 39. 1833, *nom.*, subgen. *Bartsia* Linn.
- MACUILLAMIA** Raf. Neogen. 2. 1825, *descr.*; Aut. Bot. 44. 69. 1840, *nom.*, *nota*=*Hydrotrida* Small (1913)=*Bacopa* Aubl. (1775), sect. *Chaetodiscus* (Benth.) Wettst. subsect. *Hydrotrida* (Small) Pennell, Proc. Acad. Nat. Sci. Philadelphia 98:97. 1946.
- **amplexicaulis* Raf. Aut. Bot. 44. 1840, *nom.* (*Monniera amplexicaulis* Michx.). Carolina to Florida=*Bacopa amplexicaulis* (Michx.) Wettst.
- obovata* Raf. Aut. Bot. 44. 1840, *descr.* Virginia (Potomac River) and Louisiana=? *Gratiola virginiana* Linn., var.; see Fernald, *Rhodora* 44:438. 1942; see Pennell, op. cit. 96.
- rotundifolia* Raf. l.c., *descr.* (*Monniera rotundifolia* Michx.). Illinois=*Ranallapus rotundifolius* (Michx.) Pennell. South Dakota, Illinois and Indiana southward to Texas.
- ***MEIONICA** Raf. Fl. Tellur. 4:55. 1836 [1838], *descr.*, subgen. *Veronica* Linn. (Type *Veronica montana* Linn.).
- MELAMPYRUM** Linn.
lanceolatum Raf. Aut. Bot. 160. 1840, *descr.* Alleghany Mountains, New Jersey to Kentucky=*Melampyrum lineare* Lam. var. *americanum* (Michx.) Beauverd.
**radiatum* Raf. l.c., *descr.* Siberia.
- MICALIA** Raf. Fl. Tellur. 2:104. 1836 [1837], *descr.*=*Escobedia* Ruiz & Pavon (1794).
grandiflora Raf. op. cit. 105, *descr.* (*Buchnera grandiflora* Linn. f.). South America=*Escobedia grandiflora* (Linn. f.) O. Kuntze.
- ***MICRANTHUS** Raf. Anal. Nat. Tabl. Univ. 189. 1815, *nom.*=*Micranthemum* Michx. (1803), *nom. conserv.* (*Globijera* J. F. Gmel., 1791).
- MIMULUS** Linn.
pteropus Raf. Fl. Ludovic. 44. 1817, *descr.* (*Mimulus alatus* sensu Rob. Voy. Louis. 3:396. 1807). Louisiana=*M. ringens* Linn.
- MISOPATES** Raf. Aut. Bot. 155, *nom.*, 158, *descr.* 1840; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*=*Antirrhinum* Linn.
orontium Raf. op. cit. 158, *descr.* (*Antirrhinum orontium* Linn.; *Orontium arvense* Pers.); Pennell, l.c., *nom.* Europe and ? North America.
- MUTAFINIA** Raf. Atl. Jour. 1:199. 1833, *nom.*, *nota sub* *Ygramela* Raf.; Fl. Tellur. 4:57. 1836 [1837], *nom.*, *nota sub* *Ygramela* Raf., "gen. vel subgen."=*Limosella* Linn.
capensis Raf. ex Jacks*. Ind. Kew. 2:274. 1894 (*Limosella capensis* Thunb.). South Africa.
silesiaca Raf. ex Jacks*. l.c. [*Limosella aquatica* Linn. var. *silesiaca* Pers. Syn. 2:167. 1806]. Europe=*Limosella aquatica* Linn.
- NIBORA** Raf. Fl. Ludovic. 36. 1817, *descr.*=*Gratiola* Linn.
aquatica Raf. op. cit. 37, *descr.* (*Acanthe des marais* Rob. Voy. Louis. 3:381. 1807). Louisiana=*Gratiola virginiana* Linn.
- ODICARDIS** Raf. Fl. Tellur. 4:55. 1836 [1838], *descr.*=*Veronica* Linn.
cristagalli Raf. l.c., *descr.* (*Veronica cristagalli* Stev.). Caucasus Mountains.
- ***OPHIANTHES** Raf. Med. Fl. 2:118. 1830, *nom. nov. provis.* *Chelone* Linn.; Casket 1831:513. 1831, *nom.* (*Chelone* Linn.); Sat. Eve. Post 10(536):[4]. 1831, *nom.* (*Chelone* Linn.)=*Chelone* Linn.
- ***ORBONICA** Raf. Fl. Tellur. 4:55. 1836 [1838], *descr.*, subgen. *Veronica* Linn. (Type *Veronica arguta* Schrad.). Europe.
- OVOSTIMA** Raf. New Fl. N. Am. 2:70. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*=*Aureolaria* Raf. (1837).
petiolata Raf. l.c., *descr.* Florida or Alabama=*Aureolaria flava* (Linn.) Farwell, var. *macrantha* Pennell.
- ***PAGERIA** Raf. Good Book 45. 1840, *nom.*, *sphalm.*=seq.
- PAGESIA** Raf. Fl. Ludovic. 48. 1817, *descr.*; New Fl. N. Am. 2:69. 1836 [1837], *descr.*
leucantha Raf. Fl. Ludovic. 49, *descr.* (*Chelone* 2 Rob. Voy. Louis. 3:406. 1807); New Fl. l.c., *descr.* Western Louisiana and Texas=*Pagesia acuminata* (Walt.) Pennell (*Gerardia cuneifolia* Pursh).
- PANTENIS** Raf. New Fl. N. Am. 2:60. 1836 [1837], *descr.*; op. cit. 72, *nom.*; Good Book 45. 1840, *nom.*=*Aureolaria* Raf. (1837).
pectinata Raf. op. cit. 61, *descr.* (*Gerardia pedicularia* Linn. var. *pectinata* Nutt.). Carolina and the Alleghany Mountains=*Aureolaria pectinata* (Nutt.) Pennell.
pedicularis Raf. l.c., *descr.* (*Gerardia pedicularia* Linn.). Eastern North America=*Aureolaria pedicularia* (Linn.) Raf.
var. *pumila* Raf. l.c., *nom.*
ramosissima Raf. l.c., *nom.*
simplex Raf. l.c., *nom.*
pumila Raf. l.c., *descr.* Alleghany Mountains=*praece.*

- PANOXIS** Raf. Med. Fl. 2:109. 1830, *descr.*; Fl. Tellur. 4:55. 1836 [1838], *descr.*=Hebe Commers. (1789).
catarractae Raf. ex Jacks*. Ind. Kew. 2:420. 1894 (*Veronica catarractae* Forst. f.). New Zealand=Hebe *catarractae* (Forst. f.) Wall.
macrocarpa Raf. ex Jacks*. l.c. (*Veronica macrocarpa* Vahl). New Zealand=Hebe *macrocarpa* (Vahl) Cockayne & Allan.
salicifolia Raf. ex Jacks*. l.c. (*Veronica salicifolia* Forst. f.). New Zealand=Hebe *salicifolia* (Forst. f.) Pennell.
- PEDICULARIS** Linn.
**villosa* Raf. Western Minerva 41. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900 [Kentucky].
- PEGESIA** Raf. ex Steud. Nomencl. ed. 2, 2:282. 1841, *nom.*, *sphalm.*=Pagesia Raf. (1817).
- PELORIA** Linn. Amoen. Acad. 1:55. 1749, Sp. Pl. ed. 2, 859. 1763, *descr.* sub *Antirrhinum linaria* Linn.=*Linaria* Mill.
**genistifolia* Raf. Aut. Bot. 156. 1840, *nom.* (*Antirrhinum genistifolium* Linn.). Europe=*Linaria genistifolia* (Linn.) Mill. (*peloric* state).
**linaria* Raf. op. cit. 20, *nom.*, 156, *nom.*, *nota* (*Antirrhinum linaria* Linn.). Europe=*Linaria vulgaris* Hill (*peloric* state).
- PELTIMELA** Raf. Atl. Jour. 1:199. 1833, *descr.*; Fl. Tellur. 4:57. 1836 [1838], *descr.*=*Glossostigma* Arn. (1836), *nom. conserv.* (*Peltimela* Raf., 1833).
cuneata Raf. ll.cc., *descr.* (*Limosella diandra* Linn.). India=*Glossostigma diandrum* (Linn.) O. Kuntze (*G. spathulatum* Wight & Arn.).
- *PENSTEMON** Raf. Casket 1831:513. 1831, *nom.*; Sat. Eve. Post 10(536):[4]. 1831, *nom.*, *sphalm.*=*Penstemon* Raf. (1824)=*Penstemon* Schmidel (1762) (*Penstemon* Ait., 1789).
- *PENSTEMUM** Raf. Seringe Bull. Bot. 1:215. 1830, *nom.*=*Penstemon* Schmidel (1762) (*Penstemon* Ait., 1789).
- PENTOSTEMON** Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Neogen. 2. 1825, *nom.*; Casket 1828:428. 1828, *nom.*; Sat. Eve. Post 7(372):[4]. 1828; Med. Fl. 2:118. 1830, *nom.*; Atl. Jour. 1:145. 1832; 176. 1833, *nom.* *nov.* *Penstemon* Mitch.; Herb. Raf. 20. 1833, *nom.* (*Penstemon* Mitch.); New Fl. N. Am. 1:27. 1836, *nom.*; op. cit. 2:73. 1836 [1837], *nom.* (*Penstemon* Mitch.); Fl. Tellur. 1:18. 1836 [1837], *nom.* (*Penstemon* Mitch.)=*Penstemon* Schmidel 1762 (*Penstemon* Ait., 1789).
**ambiguus* Raf. Atl. Jour. 1:145. 1832, *nom.* Rocky Mountains=*Penstemon ambiguus* Torr.
**atropurpureus* Raf. op. cit. 176. 1833, *descr.*; Herb. Raf. 20. 1833, *descr.* Texas=*Penstemon barbatus* (Cav.) Roth.
**capitatus* Raf. Herb. Raf. 51. 1833, *nom.* Rocky Mountains or Oregon.
**dentatus* Raf. op. cit. 39, *nom.* Upper Missouri (Mandan country)=Dakota.
**diffusus* Raf. op. cit. 50, *nom.* Rocky Mountains or Oregon. [*Penstemon diffusus* Dougl. ?].
**gracilis* Raf. l.c., *nom.* [*Penstemon gracilis* Nutt.]. Rocky Mountains or Oregon.
**grandiflorus* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
**latifolius* Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.
**levigatus* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky [*Penstemon laevigatus* Ait.].
**micranthus* Raf. New Fl. N. Am. 2:73. 1836 [1837], *nom.* (*Penstemon micranthus* Nutt.). Western North America.
**roseus* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
**scouleri* Raf. New Fl. N. Am. 2:72. 1836 [1837], *nom.* Northwestern United States=*Penstemon scouleri* Dougl.
- PONARIA** Raf. Med. Fl. 2:109. 1830, *descr.*; Fl. Tellur. 4:56. 1836 [1838], *descr.*=*Veronica* Linn.
lacinata Raf. ex Jacks*. Ind. Kew. 2:603. 1894 (*Veronica lacinata* Moench). Europe.
latifolia Raf. ex Jacks*. l.c. (*Veronica latifolia* Linn.). Europe.
pona Raf. ex Jacks*. l.c. (*Veronica pona* Gouan). Europe.
- *PORFURIS** Raf. Aut. Bot. 155. 1840, *nom.*, in obs. sub *Antirrhinum* Linn.=*Nemesia* Vent. (1803).
**pinnatifida* Raf. l.c., *nom.* (*Antirrhinum pinnatum* Linn.). South Africa=*Nemesia pinnata* (Linn.) E. Mey.
- #PRIONULA** Raf. Fl. Tellur. 4:89. 1836 [1838], *nom.* subgen. *Lasiake* Raf. (Type *Verbascum lyratum* Lam.)=*Celsia* Linn.
- PROBATEA** Raf. Aut. Bot. 155, *nom.*, 157, *descr.*, 1840, *nom. nov.* *Asarina* Mill.; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*=*Antirrhinum* Linn. (*Asarina* Mill.)
**grandiflora* Raf. op. cit. 158, *descr.* (*Antirrhinum asarina* Linn.; *Orontium asarina* Pers.; *Asarina cordifolia* Moench). Switzerland=*Antirrhinum asarina* Linn.
**lobata* Raf. l.c., *descr.* Siberia.
- #PSIDIOLA** Raf. Fl. Tellur. 4:58. 1836 [1838], *descr.*, subgen. *Gratiola* Linn.; Aut. Bot. 43. 1840, *nom.*, *nota*. (Type *Gratiola callosa* Raf.)=*Gratiola* Linn.
- RUSSELLIA** Jacq.
flammea Raf. New Fl. N. Am. 2:71. 1837, *descr.* (*Gerardia flammea* Bartr. Trav. 412. 1791, *descr.*). Alabama=*Macranthera flammea* (Bartr.) Pennell.
- SCROPHULARIA** Linn.
**adenopa* Raf. Aut. Bot. 161. 1840, *descr.* Kentucky, Ohio=*S. marilandica* Linn.
**capitata* Raf. op. cit. 162, *descr.* Alps of Bavaria.
**crenata* Raf. l.c., *descr.* Europe.
dimidiata Raf. op. cit. 161, *descr.* Carolina, Florida=?
S. lanceolata Pursh fide Pennell, Torrey 22:83. 1922.
**diversifolia* Raf. l.c., *descr.* Delaware to Virginia=*S. marilandica* Linn.
**glaucia* Raf. op. cit. 160, *nom. nov.* *S. marilandica* Linn. Eastern North America=*S. marilandica* Linn.
hastata Raf. Fl. Ludovic. 44. 1817, *descr.* (*Scrophularia marilandica* sensu Rob. Voy. Louis. 3:395. 1807); Med. Fl. 2:262. 1830, *nom.* Louisiana. An *Scrophulariaceae*?
**lanceolata* Raf. Med. Fl. 2:262. 1830, *nom.* Hab.?
**lyrata* Raf. Aut. Bot. 162. 1840, *descr.* Central America. *marilandica* Linn. Eastern North America.
var. *latifolia* Raf. op. cit. 161, *nom.*
longifolia Raf. l.c., *nom.*
obliquata Raf. l.c., *nom.*
pumila Raf. l.c., *nom.*
pectinata Raf. op. cit. 160, *descr.* Long Island and New Jersey=*S. lanceolata* Pursh, fide Pennell, Torrey 22:81. 1922.
**serrulata* Raf. op. cit. 161, *descr.* Alleghany Mountains=*S. marilandica* Linn.
**sylvatica* Raf. Med. Fl. 2:262. 1830, *nom.* Hab.?
**triflora* Raf. l.c., *descr.* Siberia.
**truncata* Raf. op. cit. 162, *descr.* Russia.
- SEPTILIA** Raf. Fl. Tellur. 4:68. 1836 [1838], *nom. nov.* *Septas* Lour. (1790)=*Bacopa* Aubl. (1775), sect. *Bramia* (Lam.) Wettst.
repens Raf. l.c., *nom.* (*Septas repens* Lour.; *Thunbergia repens* Pers.). China (Kwangtung)=*Bacopa monnieri* (Linn.) Pennell, Proc. Acad. Nat. Sci. Philadelphia 98:94. 1946 (*Bramia monnieri* Pennell).
- SEYMERIA** Pursh (1814), *nom. conserv.* (*Afzelia* J. F. Gmel., 1791).
heterophylla Raf. New Fl. N. Am. 2:68. 1836 [1837], *descr.* (*Seymeria jacksoni* Ell.). Georgia, Alabama=*Seymeria pectinata* Pursh (*Afzelia pectinata* O. Kuntze).
- TERMONTIS** Raf. Chloris Aetn. 5. 1815, *nom.* (*Antirrhinum chalepensis* Linn.)=*Linaria* Mill. (1752).
chalepensis Raf. l.c., *nom.* (*Antirrhinum chalepense* Linn.). Spain=*Linaria chalepensis* (Linn.) Mill.
cordata Raf. l.c., *nom.* Sicily.
purpurea Raf. op. cit. 10, *nom.* (*Antirrhinum purpureum* Linn.) Sicily=*Linaria purpurea* (Linn.) Mill.
villosa Raf. op. cit. 5, *nom.* (*Antirrhinum villosum* Linn.)=*Linaria villosa* (Linn.) Mill.
- *TERMONTIS** Raf. Aut. Bot. 155. 1840, *nom.*, op. cit. 158, *nom.*, *nota* (*Orontium* sensu Pers., non Linn.); Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.*, vix *Termontis* Raf. (1815)=*Antirrhinum* Linn.
**racemosa* Raf. op. cit. 158, *descr.* (*Antirrhinum majus* Linn.); Pennell, l.c., *nom.* Europe.
**sicula* Raf. op. cit. 159, *descr.* (*Antirrhinum siculum* Mill.). Sicily.
**tricolor* Raf. l.c., *descr.* Apennine Mountains, Italy.
- THAPSUS** Raf. Fl. Tellur. 4:89. 1836 [1838], *descr.*=*Verbascum* Linn.
blattaria Raf. ex Jacks*. Ind. Kew. 2:1061. 1895 (*Verbascum blattaria* Linn.). Europe.
floccosus Raf. ex Jacks*. l.c. (*Verbascum floccosum* Waldst. & Kit.). Europe.
lychnitis Raf. ex Jacks*. l.c. (*Verbascum lychnitis* Linn.). Europe.

- montanus** Raf. ex Jacks*. l.c. (*Verbascum montanum* Schrad.). Europe.
- mucronatus** Raf. ex Jacks*. l.c. (*Verbascum mucronatum* Lam.). Asia Minor, Crete.
- nigrum** Raf. ex Jacks*. l.c. (*Verbascum nigrum* Linn.). Europe.
- pheniceum** Raf. ex Jacks*. l.c. (*Verbascum phoeniceum* Linn.). Europe.
- pulverulentum** Raf. ex Jacks*. l.c. (*Verbascum pulverulentum* Vill.). Southern Europe.
- sinuatum** Raf. ex Jacks*. l.c. (*Verbascum sinuatum* Linn.). Southern Europe.
- thapsoides** Raf. ex Jacks*. l.c. (*Verbascum thapsoides* Linn.). Europe.
- TOMANTHERA** Raf. New Fl. N. Am. 2:65. 1836 [1837], *descr.* (*Otophylla* Benth., 1846); Good Book 45. 1840, *nom.*
- auriculata** Raf. op. cit. 66, *descr.* (*Gerardia auriculata* Michx.). Illinois, Louisiana=*Tomanthera auriculata* (Michx.) Raf. (*Otophylla michauxii* Benth.; *O. auriculata* Small).
- lanceolata** Raf. l.c., *descr.* (*Erinus africanus* Muhl. Cat. 59. 1813, non Linn.; *Gerardia auriculata* Michx.). Pennsylvania to Carolina=*praec.*
- TOMILIX** Raf. New Fl. N. Am. 2:72. 1836 [1837], *nom. nov. provis.* *Macranthera* Torr. (1835).
- bracteata** Raf. l.c., *nom. alt.* *Macranthera fuchsoides* Torr., (*Toxopus calicinus* Raf.)=*Macranthera fuchsoides* Torr.=*Macranthera flammæa* (Bartr.) Pennell. Southeastern United States.
- TOXOPUS** Raf. New Fl. N. Am. 2:71, 72. 1836 [1837], *nom. nov. provis.* *Macranthera* Torr. (1835).
- calycinus** Raf. op. cit. 72, *nom. nov.* *Macranthera fuchsoides* Torr. Southeastern United States=*Macranthera flammæa* (Bartr.) Pennell.
- gymnanthes** Raf. l.c., *nom. nov.* *Macranthera lecontii* Torr. Florida=*praec.*
- TURSITIS** Raf. Aut. Bot. 156. 1840, *descr.* (*Elatine* Moench, 1794, non Linn. 1753); Pennell, Bull. Torr. Bot. Club 48:95. 1891, *nom.*=*Kickxia* Dum. (1827).
- *cymbalaria** Raf. l.c., *nom.* (*Antirrhinum cymbalaria* Linn.). Europe=*Linaria cymbalaria* (Linn.) Mill.
- *egyptiaca** Raf. op. cit. 157, *descr.* (*Antirrhinum aegyptiacum* Linn.). North Africa=*Linaria aegyptiaca* (Linn.) Dum.-Cours.=*Kickxia aegyptiaca* (Linn.) Náb.
- elatine** Raf. op. cit. 156, *nom.* (*Antirrhinum elatine* Linn.); Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.* Europe=*Linaria elatine* Mill.=*Kickxia elatine* (Linn.) Dum.
- filifera** Raf. op. cit. 157, *descr.* Alabama, Louisiana=*Kickxia elatine* (Linn.) Dumort. fide Pennell, Torreya 22:84. 1922 (*Linaria elatine* Mill.).
- *flexuosa** Raf. l.c., *descr.* Europe.
- *reniformis** Raf. l.c., *descr.* Sicily.
- *rotundifolia** Raf. l.c., *descr.* (*Antirrhinum spurium* Linn.). Europe=*Linaria spuria* Mill.=*Kickxia spuria* (Linn.) Dum.
- *UCNOPSOLON** Raf. Aut. Bot. 155. 1840, *nom.*, sub *Antirrhinum* Linn.=*Lindernia* All. (1755).
- *cordatum** Raf. l.c., *nom.* (*Antirrhinum hexandrum* Forsk.; *Linaria hexandra* F. G. Dietr.). Tropical Asia=*Lindernia crustacea* (Linn.) F. Muell.
- UVEDALIA** R. Br.=*Mimulus* Linn.
- *americana** Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* Kentucky.
- VERBASCUM** Linn.
- *collinsi** Raf. Aut. Bot. 111. 1840, *descr.* Southern Europe.
- *macrophyllum** Raf. l.c., *nom. alt.* *Verbascum pyramidale* Raf. Asia?
- *pyramidale** Raf. l.c., *descr.* Asia?
- *spicatum** Raf. op. cit. 110, *descr.* Europe.
- VERONICA** Linn.
- beccabunga** Linn.
- var. **americana** Raf. Med. Fl. 2:109. 1830, *descr.* Eastern North America=*V. americana* (Raf.) Schwein.
- procumbens** Raf. l.c., *nom. alt.* *V. beccabunga* Linn. var. *americana* Raf.=*praec.*
- *catarractae** Raf. Med. Fl. 2:109. 1830, *nom.*=*V. catarractae* Forst. f.=*Hebe catarractae* (Forst. f.) Wall. New Zealand.
- cinerea** Raf. New Fl. N. Am. 4:39. 1836 [1838], *descr.* Oregon=*Besseyia cinerea* (Raf.) Pennell.
- †connata** Raf. Western Minerva 41. 1821, *nom.*; iter. Fox, Science II. 12:213. 1900; First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Med. Fl. 2:110. 1830, *descr.*; Atl. Jour. 1:150. 1832, *descr.*; Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 4:37. 1836 [1838], *descr.* Western Kentucky,

- Illinois and Missouri; see Pennell, Acad. Nat. Sci. Philadelphia Monog. 1:364-370. 1935; Fassett, Jour. Wash. Acad. Sci. 37:253-254. 1947 (*V. salina* Schur, 1866, *V. catenata* Pennell, 1921).
- diffusa** Raf. New Fl. N. Am. 4:38. 1836 [1838], *descr.*, *nom. nov.* *Veronica precox* Raf. Bartram's Garden, Philadelphia =*V. persica* Poir.
- *longifolia** Raf. Herb. Raf. 50. 1833, *nom.* Rocky Mountains or Oregon.
- missourica** Raf. Am. Monthly Mag. Crit. Rev. 2:175. 1817, *nom. nov.* *Veronica reniformis* Pursh (1814), non Raf. (1808) (*V. purshii* G. Don, 1838). Missouri River=*Synthyris missurica* (Raf.) Pennell, Proc. Acad. Nat. Sci. Philadelphia 85:89. 1935.
- mollis** Raf. Herb. Raf. 50. 1833, *nom.*; New Fl. N. Am. 4:83. 1836 [1838], *descr.*; Aut. Bot. 10. 1840, *nom.* Oregon =*V. wormsjkoldii* Roem. & Schultes.
- perfoliata** Raf. New Fl. N. Am. 4:37. 1836 [1838], *descr.* Florida; see Pennell, Acad. Nat. Sci. Philadelphia Monog. 1:363. 1935, sp. dub.
- *prealta** Raf. Western Rev. Miscel. Mag. 2:92. 1819, *nom.* Kentucky.
- precox** Raf. Atl. Jour. 1:79. 1832, *descr.*, non All. Bartram's Garden, Philadelphia=*V. diffusa* Raf. New Fl. N. Am. 4:38. 1836 [1838]=*V. persica* Poir.
- reniformis** Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. 1:228. 1809, *descr.* New Jersey=? *V. hederifolia* Linn.
- sparsiflora** Raf. Atl. Jour. 1:79. 1832, *descr.*; Herb. Raf. 50. 1833, *nom.*; New Fl. N. Am. 4:38. 1836 [1838], *descr.*; Aut. Bot. 10. 1840, *nom.* "Arkansas or Texas"; see Pennell, Acad. Nat. Sci. Phila. Monog. 1:633. 1935. Missouri, Arkansas, Texas. See Pennell, Acad. Nat. Sci. Philadelphia Monog. 1:633. 1935, "probably a Eurasian species."
- uliginosa** Raf. Am. Monthly Mag. Crit. Rev. 1:358. 1817, *nom.* (*V. scutellata* sensu Bigelow); op. cit. 2:175. 344. 1818, *nom.*, *nota* (*Veronica scutellata* sensu Bigelow et Pursh); M'Murtrie, Sketch. Louisv. 228. 1819, *nom.* North America=*Veronica scutellata* Linn.
- YGRAMELA** Raf. Atl. Jour. 1:199. 1833, *descr.*; Fl. Tellur. 4:57. 1836 [1838], *descr.*=*Limosella* Linn.
- maritima** Raf. l.c., *descr.*; Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay=*Limosella subulata* Ives (1817), forma *maritima* (Raf.) Pennell.
- *YGRAMELTA** Raf. Atl. Jour. 1:199. 1833, *nom.*, *sphalm.*, sub *Ygramela* Raf.=*Limosella* Linn.
- ZELIAUROS** Raf. Aut. Bot. 184. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club. 48:95. 1921, *nom.*=? *Veronica* Linn.
- repens** Raf. op. cit. 185, *descr.*, Pennell, l.c., *nom.* Spain or Morocco.

BIGNONIACEAE

BIGNONIA Linn.

- *bracteata** Bartr. Trav. 468. 1791, *nom.*; Raf. Casket 1827:194. 1827, *nom.* in syn. sub *Pinckneya bracteata* Raf.; Sat. Eve. Post 6(303):[4]. 1827, *nom.* (*Pinckneya bracteata* Raf.). Southern United States=*Pinckneya pubens* Michx. (1803).
- CATALPIUM** Raf. Princ. Somiol. 27. 1814, *nom. nov.* *Catalpa* Scop.; Am. Monthly Mag. Crit. Rev. 2:175. 1818, *nom.* (*Catalpa* Scop.); op. cit. 3:100. 1818, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:259. 1819, *nom.* (*Catalpa* Scop.)=*Catalpa* Scop.
- amenum** Raf. Fl. Ludovic. 139. 1817, *nom.* (*Bignonia catalpa* Linn.; *Catalpa syringaeifolium* Sims). Louisiana=*Catalpa bignonioides* Walt.
- *cordatum** Raf. Western Rev. Miscel. Mag. 1:93. 1819, *nom.* Kentucky=*C. cordifolium* Raf.=*C. bignonioides* Walt.
- *cordifolium** Raf. Am. Monthly Mag. Crit. Rev. 4:190. 1819, *nom.*, *nota* [*Catalpa cordifolia* Jaume]. Eastern North America=*Catalpa bignonioides* Walt.
- CRESCENTIA** Linn.
- arborea** Raf. Sylva Tellur. 81. 1838, *descr.* West Indies, South America.
- latifolia** Raf. l.c., *descr.* West Indies, South America.
- pumila** Raf. l.c., *descr.* West Indies, South America.
- CUPULISSA** Raf. Fl. Tellur. 2:57. 1836 [1837], *descr.*=*Anemopaegma* Mart. (1845), *nom. conserv. propositum.*

CUPULISSA (*continued*).

grandifolia Raf. l.c., *descr.* (*Bignonia grandifolia* Jacq. Pl. Hort. Schoenbr. 3:19. t. 287. 1798; Ker-Gawl. Bot. Reg. 5: t. 418. 1819; Hook. Bot. Mag. 57: t. 3011. 1830). Venezuela=*Anemopaegma grandifolium* (Jacq.) Merr. & Sandw. Jour. Arnold Arb. 28:432. 1947.

DENDROSICUS Raf. Sylva Tellur. 80. 1838, *descr.*=*Crescentia* Linn.

saxatilis Raf. l.c., *descr.* (*Crescentia cucurbitina* Linn.). West Indies.

ENDOLOMA Raf. Sylva Tellur. 79. 1838, *descr.*=*Amphilophium* Kunth (1818).

purpurea Raf. op. cit. 80, *descr.* (*Bignonia paniculata* Linn.). South America=*Amphilophium paniculatum* (Linn.) H.B.K.

ETORLOBA Raf. Sylva Tellur. 79. 1838, *nom. alt.* *Rafinesquia* Raf.=*Jacaranda* Juss. (1789).

cerulea Raf. l.c., *nom. alt.* *Rafinesquia cerulea* Raf. (*Bignonia caerulea* Linn.). West Indies=*Jacaranda caerulea* (Linn.) Juss.

HIERANTHES Raf. Sylva Tellur. 79. 1838, *descr.*=*Stereospermum* Cham. (1832).

fragrans Raf. l.c., *descr.* (*Bignonia chelonoides* Linn. f.). India =*Stereospermum chelonoides* (Linn. f.) DC.

HIPPOXYLON Raf. Sylva Tellur. 78. 1838, *descr.*=*Oroxylon* Vent. (1808).

indicum Raf. l.c., *descr.* (*Bignonia indica* Linn.). India =*Oroxylon indicum* (Linn.) Vent.

KIGELKEIA Raf. Sylva Tellur. 166. 1838, *descr.*=*Kigelia* DC. (1845).

**pinnata* Raf. l.c., *nom., nota* (*Crescentia pinnata* Jacq.; *Tanaecium pinnatum* Willd.). East Africa=*Kigelia pinnata* (Jacq.) DC.

LEUCOXYLON Raf. Sylva Tellur. 77. 1838, *descr.*=*Tabebuia* Gomez (1803).

acuminata Raf. op. cit. 78. *descr.* (*Bignonia leucoxyton* Linn.). South America=*Tecoma leucoxyton* (Linn.) Mart.

riparia Raf. op. cit. 77, *descr.* (*Bignonia leucoxyton* sensu Sw.). Jamaica=*Tabebuia pentaphylla* (Linn.) Hemsl.

#**LOBONIS** Raf. Sylva Tellur. 80. 1838, *nom., nota*, subgen. *Bignonia* Linn. (Type *Bignonia echinata* Aubl. [vel Jacq.]) =*Pithecoctenium* Mart. (1840).

NEVRILIS Raf. Sylva Tellur. 138. 1838, *descr.*=*Millingtonia* Linn. f. (1781).

suberosa Raf. l.c., *descr.* (*Bignonia suberosa* Roxb. Pl. Coromandel 3:11. t. 214. 1819; *Millingtonia hortensis* Linn. f.). India=*Millingtonia hortensis* Linn. f.

ODISCA Raf. Sylva Tellur. 80. 1838, *descr.*=*Colea* Boj. (1837), *nom. conserv.* (*Tripinna* Lour., 1790; *Tripinnaria* Pers., 1807; *Uloma* Raf. 1837).

rosea Raf. l.c., *descr.* (*Bignonia colei* Boj. ex Hook. Bot. Mag. 55: t. 2817. 1828). Mauritius=*Colea mauritiana* Boj.

PENTELESIA Raf. Sylva Tellur. 146. 1838, *descr.*=*Arrabidaea* DC. (1838).

discolor Raf. l.c., *descr.* (*Bignonia carichanensis* H.B.K.). Venezuela=*Arrabidaea carichanensis* (H.B.K.) Bur. & K. Schum.

PLATOLARIA Raf. Sylva Tellur. 78. 1838, *descr.*=*Anemopaegma* Mart. (1845). *nom. conserv. propositum.*

flavescens Raf. l.c., *descr.* (*Bignonia orbiculata* Jacq.). Colombia (Cartagena)=*Anemopaegma orbiculatum* (Jacq.) DC.; see Merr. & Sandw. Jour. Arnold Arb. 28:430. 1947.

PONGELIA Raf. Sylva Tellur. 78. 1838, *descr.*=*Dolichandrone* Fenzl (1862).

longiflora Raf. op. cit. 79, *descr.* (*Bignonia et Spathodea* auct.). Ceylon, Java, Moluccas=*Dolichandrone spathacea* (Linn. f.) K. Schum.

POTAMOXYLON Raf. Sylva Tellur. 78. 1838, *descr.* (*Couralia* Splitg., 1841).

alba Raf. l.c., *descr.* (*Bignonia fluviatilis* Aubl. Pl. Guian. 2: 655. t. 267. 1775). Guiana=*Tabebuia fluviatilis* DC.=*Couralia fluviatilis* (Aubl.) Splitg. (1841)=*Potamoxyton fluviatile* (Aubl.) Pichon, Bull. Soc. Bot. France 92:228. 1945.

PROTERPIA Raf. Sylva Tellur. 80. 1838, *descr.*=*Tabebuia* Gomez (1803).

obtusifolia Raf. l.c., *descr.* (*Bignonia obtusifolia* Lam.). Brazil.

RAFINESQUIA Raf. Sylva Tellur. 79. 1838, *descr.*=*Jacaranda* Juss. (1789).

cerulea Raf. l.c., *descr.* (*Bignonia caerulea* Linn.; *Bignoniae flore caerulea* Catesby Nat. Hist. Carol. 1:42. t. 42. 1733). Florida, Bahamas=*Jacaranda caerulea* (Linn.) Juss. (*J. caroliniana* Pers.).

SEREREA Raf. Sylva Tellur. 107. 1838, *descr.*=*Pithecoctenium* Mart. (1840).

heterophylla Raf. l.c., *descr.* (*Bignonia heterophylla* Willd.; *Bignonia cherere* Aubl.; Lindl. Bot. Reg. 15: t. 1301. 1830; *B. kerere* Aubl. Pl. Guian. 2:644. 1775; *B. cherere* Aubl. op. cit. t. 260). Guiana.

***TALPA** Raf. Am. Monthly Mag. Crit. Rev. 3:100. 1818, *nom. nov.* Catalpa Scop.

TANAESIUM Raf. Sylva Tellur. 166. 1838, *nom. sphalm.*=*Tanaecium* Sw. (1788).

TECOMA Juss.

**crucigera* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* [*Bignonia crucigera* Linn.]. Kentucky.

ULOMA Raf. Fl. Tellur. 2:62. 1836 [1837], *descr.*=*Colea* Boj. (1837), *nom. conserv.* (*Tripinna* Lour., 1790; *Tripinnaria* Pers., 1807).

telfairia Raf. l.c., *descr.* (*Bignonia telfairiae* Boj. ex Hook. Bot. Mag. 57: t. 2976. 1830). Madagascar=*Colea telfairiae* Boj.

PEDALIACEAE

BASONCA Raf. Fl. Tellur. 4:68. 1836 [1838], *descr.*=*Rogeria* J. Gay (1824).

longiflora Raf. l.c., *nom.* (*Martynia longiflora* Linn.). South Africa=*Rogeria longiflora* (Linn.) J. Gay.

DYSOSMON Raf. Fl. Ludovic. 48. 1817, *descr.*=*Sesamum* Linn.

amoenum Raf. l.c., *descr.* (*Grande gallane ou Chelone*. Rob. Voy. Louis. 3:405. 1807); Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.* Louisiana=*Sesamum orientale* Linn. (*S. indicum* Linn.).

MARTYNIACEAE

DISTEIRA Raf. Fl. Tellur. 4:68. 1836 [1838], *descr.*=*Martynia* Linn.

angulosa Raf. l.c., *descr.* (*Martynia angulosa* Lam.; *M. diandra* Glox.). Mexico.

MARTYNIA Linn.

**rotundifolia* Raf. Western Minerva 41. 1821, *nom., iter.* Fox, Science II. 12:213. 1900. North America.

OROBANCHACEAE

CYPHANTHE Raf. Neogen. 3. 1825, *nom. alt.* *Thalesia* Raf. (Type *Orobanche uniflora* Linn.)=*Orobanche* Linn.

LEPTANNIUM Raf. Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.* (*Orobanche virginiana* Linn.); op. cit. 4:194. 1819, *nom.* (*Epifagus* Nutt.); Jour. Phys. Chim. Hist. Nat. 89: 259. 1819, *nom.* (*Epifagus* Nutt.); Med. Fl. 2:267. 1830, *nom.*=*Epifagus* Nutt. (1818), *nom. conserv.* (*Leptamnium* Raf., 1818).

†*virginianum* Raf. Med. Fl. 2:237. 1830, *nom.* (*Orobanche virginiana* Linn.; *Epifagus [americanus]* Nutt.). North America=*Epifagus virginianus* (Linn.) Barton.

LOXANTHES Raf. Neogen. 3. 1825, *nom.*=*Aphyllon* (Mitch.) Torr. & Gray (1848)=*Orobanche* Linn.

fasciculata Raf. ex Jacks*. Ind. Kew. 2:121. 1894 (*Orobanche fasciculata* Nutt.)=*Aphyllon fasciculatum* Torr. & Gray (1848)=*Orobanche fasciculata* Nutt. Central United States.

**peduncularis* Raf. Herb. Raf. 39. 1833, *nom.* ("Orobanche, P[ursh].") Missouri.

OROBANCHE Linn.

fragrans Raf. Am. Monthly Mag. Crit. Rev. 1:440. 1817, *descr.*; Fl. Ludovic. 169. 1817, *nom.* Sicily.

obtusata Raf. l.c., *descr., nom.* Sicily.

purpurea Raf. Car. Nuov. Gen. Sp. Sicil. 80. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; Specch. Sci. 2:8. 1814, *descr.* Sicily.

rubra Raf. Chloris Aetn. 10. 1815, *nom.* Sicily.

***POLYCLONOS** Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, sub *Epifagus* Nutt., *nom. nov.* *Gymnocaulis* Nutt. (1818), sect. *Orobanche* Linn.=*Orobanche* Linn. (*Aphyllon* (Mitch.) Torr. & Gray, 1848).

THALESIA Raf. Am. Monthly Mag. Crit. Rev. 2:267. 1818, *nom.* (*Orobanche uniflora* Linn.); op. cit. 4:189, 194. 1819, *nom.* (*Orobanche uniflora* Linn.); Neogen. 3. 1825, *nom.* (*Orobanche uniflora* Linn.); Fl. Tellur. 1:16. 1836 [1837], *nom.*=*Aphyllon* (Mitch.) Torr. & Gray (1848)=*Orobanche* Linn.

uniflora Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, nom. (*Orobanche uniflora* Linn.); Med. Fl. 2:267. 1830, nom. (*Orobanche uniflora* Linn.). Eastern North America = *Orobanche uniflora* Linn. (*Aphyllon uniflorum* A. Gray; *Thalesia uniflora* Britton).

GESNERIACEAE

- ***ALAGOPHYLLA** Raf. Fl. Tellur. 2:33. 1836 [1837], descr. = *Gesneria* Linn.
 **dasyanthos* Raf. l.c., descr. (*Gesneria allagophylla* Mart.; Lindl. Bot. Reg. 21: t. 1767. 1835). Brazil.
ALAGOPHYLLA Raf. ex Jacks*. Ind. Kew. 1:70. 1893 = praec. *dasyanthos* Raf. ex Jacks*. l.c. = praec.
ALMANA Raf. Fl. Tellur. 4:68. 1836 [1838], descr. = *Sinningia* Nees 1825 (*Ligeria* Decne. 1848).
hirsuta Raf. l.c., descr. (*Gloxinia hirsuta* Lindl. Bot. Reg. 12: t. 1004. 1826). Brazil = *Ligeria hirsuta* Decne. = *Sinningia hirsuta* (Lindl.) Nichols.
BACA Raf. Princ. Somiol. 25. 1814, nom., sphalm.; Fl. Tellur. 1:83. 1836 [1837], nom., sphalm. = *Boea* Commers. (1785).
 ***CAONABO** Turpin ex Raf. Specch. Sci. 1:194. 1814, nom. = *Vireya* Raf. (1814) = *Columnnea* Linn.
CHELETERUS Raf. Princ. Somiol. 25. 1814, nom. nov. *Boea* Commers. ex Juss. (1789) [sphalm. Raf. "Baca"] = *Boea* Commers. (1785).
 ***CLETERUS** Raf. Fl. Tellur. 1:83. 1836 [1837], nom. nov. *Boea* Commers. ex Juss. (1789) [sphalm. Raf. "Baca"] = praec.
COLUMNNEA Linn.
repens Raf. ex Jacks*. Ind. Kew. 1:587. 1893 ([*Aponoa repens* Raf.]; *Columnnea stellata* Lour.). Indo-China (Annam) = ? *Limnophila chinensis* (Osb.) Merr.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):350. 1935 (*Scrophulariaceae*).
 ***DAHLBERGIA** Raf. Sylva Tellur. 71. 1838, nom. sub *Hematophyla* Raf. = *Dalbergaria* Tussac (1808) = *Columnnea* Linn.
ERIPHIA sensu Raf. Sylva Tellur. 77. 1838, non P. Browne = *Besleria* Linn.
lutea Raf. l.c., descr. (*Besleria lutea* Linn.). South America (Guiana) = *Besleria lutea* Linn.
pallida Raf. l.c., descr. (*Besleria lutea* sensu Sw.). Jamaica = *Besleria lutea* Linn.
EUSYNETRA Raf. Fl. Tellur. 2:57. 1836 [1837], descr. = *Columnnea* Linn.
bicolor Raf. l.c., descr. (*Columnnea hirsuta* Sw.; Hook. Bot. Mag. 58: t. 3081. 1834; *Achimenes I major* P. Browne, Nat. Hist. Jam. 270. t. 30. f. 3. 1756). Jamaica = *Columnnea hirsuta* Sw.
GLYCANTHES Raf. Sylva Tellur. 83. 1838, descr. = *Columnnea* Linn.
scandens Raf. l.c., descr. (*Columnnea scandens* Linn.). West Indies, Guiana.
HEMATOPHYLLA Raf. Sylva Tellur. 71. 1838, descr. (*Dahlbergia* Raf. = *Dalbergaria* Tussac) = *Columnnea* Linn.
villosa Raf. Sylva Tellur. 71. 1838, descr. (*Besleria sanguinea* Pers.). Haiti = *Columnnea coccinea* (Pers.) Hanst.
LOPHALIX Raf. Sylva Tellur. 70. 1838, descr. (*Crantzia* Scop.) = *Alloplectus* Mart. (1829), nom. conserv. (*Crantzia* Scop., 1777; *Lophia* Desv., 1825).
bicolor Raf. l.c., descr. (*Besleria cristata* Linn.). West Indies = *Alloplectus cristatus* (Linn.) Mart.
coccinea Raf. op. cit. 71, descr. (*Besleria coccinea* Aubl.). Guiana = *Alloplectus coccineus* (Aubl.) Mart.
MEGAPELIS Raf. Fl. Tellur. 2:57. 1836 [1837], descr. = *Gesneria* Linn.
 **bulbosa* Raf. op. cit. 33, nom. sub *Alagophylla* Raf. = seq. *tuberosa* Raf. op. cit. 58, descr. (*Gesneria bulbosa* Ker-Gawl. Bot. Reg. 4: t. 343. 1819; Hook. Bot. Mag. 58: t. 3041. 1831). Brazil.
PETRAMNIA Raf. Fl. Tellur. 4:68. 1836 [1838], nom. (Type *Cranialaria fruticosa* Linn.) = *Pentarhaphia* Lindl. [*Pentarhaphia* Lindl.] (1827).
STYROSINIA Raf. Fl. Tellur. 2:95. 1836 [1837], descr. = *Gesneria* Linn.
coccinea Raf. op. cit. 96, descr. (*Gesneria aggregata* Ker-Gawl. Bot. Reg. 4: t. 329. 1818; Hook. Bot. Mag. 54: t. 2725. 1827; *Gesneria pendulina* Lindl. Bot. Reg. 12: t. 1032. 1827). Brazil.
TULISMA Raf. Fl. Tellur. 2:98. 1836 [1837], descr. = *Gesneria* Linn.

verticillata Raf. l.c., descr. (*Gesneria verticillata* Hook. Bot. Mag. 54: t. 2776. 1827). Brazil = *Gesneria maculata* Mart.
VIREYA Raf. Specch. Sci. 1:194. 1819, descr.; Précis Découv. Somiol. 1814, nom. (p. 4 of cover); Jour. Bot. (Desv.) 4: 277 (err. 177). 1814, nom. = *Columnnea* Linn.
sanguinolenta Raf. l.c., descr. Santo Domingo = *Columnnea sanguinea* (Pers.) Hanst.

LENTIBULARIACEAE

- ASKOFAKE** Raf. Fl. Tellur. 4:108. 1836 [1838], descr. = *Utricularia* Linn.
recurva Raf. l.c., descr. (*Utricularia recurva* Lour.). Indo-China (Annam) = *Utricularia bifida* Linn.; see Merrill, Trans. Am. Philos. Soc. II. 24(2): 356. 1935.
BUCRANION Raf. Aut. Bot. 155, nom., 159, descr. 1840; Pennell, Bull. Torr. Bot. Club 48:95. 1921, nom. = *Utricularia* Linn.
 **capense* Raf. op. cit. 159, nom. nov. *Antirrhinum aphyllum* Thunb. = *Utricularia capensis* (Thunb.) Spreng. South Africa.
spicatum Raf. l.c., descr.; Pennell, l.c., nom. Africa?
COSMIZA Raf. Fl. Tellur. 4:110. 1836 [1838], descr. = *Polypompholyx* Lehm. (1844), nom. conserv. (*Cosmiza* Raf., 1838).
coccinea Raf. l.c., descr. (*Utricularia multifida* Sm.). Australia = *Polypompholyx multifida* (Sm.) F. Muell.
ENSKIDE Raf. Fl. Tellur. 4:109. 1836 [1838], descr. = *Utricularia* Linn.
barbata Raf. l.c., descr. (*Utricularia [barbata]* R. Br.). Australia.
chrysanthia Raf. l.c., descr. (*Utricularia [chrysanthia]* R. Br.). Australia.
flava Raf. l.c., descr. (*Utricularia [flava]* R. Br.). Australia.
HAMULIA Raf. Fl. Tellur. 4:109. 1836 [1838], descr. = *Utricularia* Linn.
alba Raf. l.c., nom. (*Utricularia inflexa* Forsk.). Arabia = *U. stellaris* Linn. f.
flava Raf. l.c., nom., nota (*Utricularia stellaris* Linn. f.). Asia.
ISOLOBA Raf. Fl. Tellur. 4:58. 1836 [1838], descr. = *Pinguicula* Linn.
elatiior Raf. op. cit. 59, descr. (*Pinguicula elatiior* Michx.). North America = *P. caerulea* Walt.
lusitanica Raf. ex Jacks*. Ind. Kew. 1:1238. 1893 (*Pinguicula lusitanica* Linn.). Western Europe.
lutea Raf. Fl. Tellur. l.c., descr. (*Pinguicula lutea* Walt.). Carolina, Florida.
pumila Raf. l.c., descr. (*Pinguicula pumila* Michx.). Carolina, Florida.
recurva Raf. l.c., descr. (*Pinguicula edentula* Hook.). North America = *P. lutea* Walt.
LENTIBULARIA Adans.; Raf. Fl. Tellur. 4:108. 1836 [1838], descr. = *Utricularia* Linn.
minor Raf. l.c., nom. (*Utricularia minor* Linn.). Eurasia, North America.
LEPIACTIS Raf. Fl. Tellur. 4:109. 1836 [1838], descr., non Raf. op. cit. 2:43. 1836 [1837] = *Utricularia* Linn.
stellaris Raf. l.c., descr. (*Utricularis stellaris* Linn. f.). India.
MEGOPIZA Raf. ex Jacks*. Ind. Kew. 2:186. 1894, sphalm. = *Megozipa* Raf. = *Utricularia* Linn.
fornicata Raf. ex Jacks*. l.c. = *Megozipa fornicata* Raf. (*Utricularia fornicata* Le Conte). Eastern North America = *U. gibbosa* Linn.
integra Raf. ex Jacks*. l.c. = *Megozipa integra* Raf. (*Utricularia integra* Le Conte). Eastern North America = *U. biflora* Lam.
longirostris Raf. ex Jacks*. l.c. (*Utricularia longirostris* Le Conte). Eastern North America = *U. fibrosa* Walt.
macrorhiza Raf. ex Jacks*. l.c. (*Utricularia macrorhiza* Le Conte). Southeastern United States = *U. foliosa* Linn.
 ***MEGOZIPIA** Raf. Fl. Tellur. 4:110. 1836 [1838], descr. = *Utricularia* Linn.
 **fornicata* Raf. l.c., nom. (*Utricularia fornicata* Le Conte). Eastern North America = *U. gibba* Linn.
 **integra* Raf. l.c., nom. (*Utricularia integra* Le Conte). Eastern North America = *U. biflora* Lam.
 **longirostris* Raf. l.c., nom. (*Utricularia longirostris* Le Conte). Eastern North America = *U. fibrosa* Walt.
 **macrorhiza* Raf. l.c., nom. (*Utricularia macrorhiza* Le Conte). Southeastern United States = *U. foliosa* Linn.

- MEIONULA** Raf. Fl. Tellur. 4:108. 1836 [1838], *descr.*=*Utricularia* Linn.
parviflora Raf. l.c., *descr.* (*Utricularia minutissima* Vahl). Malacca.
- MELONEURA** Raf. Fl. Tellur. 4:109. 1836 [1838], *descr.*=*Utricularia* Linn.
purpurea Raf. l.c., *descr.* (*Utricularia striatula* Sm.). Ceylon.
- NELIPUS** Raf. Fl. Tellur. 4:109. 1836 [1838], *descr.*=*Utricularia* Linn.
bifida Raf. l.c., *nom.* (*Utricularia bifida* Linn.). India.
biloba Raf. l.c., *nom.* (*Utricularia biloba* R. Br.). Australia.
limosa Raf. l.c., *nom.* (*Utricularia limosa* R. Br.). Australia.
spiralis Raf. l.c., *nom.* (*Utricularia spiralis* Sm.). Tropical Africa.
- PERSONULA** Raf. Fl. Tellur. 4:110. 1836 [1838], *descr.*=*Utricularia* Linn.
grandiflora Raf. l.c., *nom.* (*Utricularia personata* Le Conte). Eastern North America=*U. cornuta* Michx. (*Stomoisia cornuta* Raf.).
- PLECTOMA** Raf. Fl. Tellur. 4:110. 1836 [1838], *descr.*=*Utricularia* Linn.
inflata Raf. l.c., *nom.* (*Utricularia inflata* Walt., *U. ceratophylla* Michx.). Eastern North America=*U. inflata* Walt.
stellata Raf. l.c., *nom.* (*Utricularia inflata* Walt., *U. ceratophylla* Michx.). Eastern North America=*U. inflata* Walt.
- PLESISA** Raf. Fl. Tellur. 4:110. 1836 [1838], *descr.*=*Utricularia* Linn.
bipartita Raf. l.c., *nom.* (*Utricularia bipartita* Ell.). South-eastern United States.
- STOMOISIA** Raf. Fl. Tellur. 4:108. 1836 [1838], *descr.*=*Utricularia* Linn.
cornuta Raf. l.c., *nom.* (*Utricularia cornuta* Michx.). Eastern North America.
- TRILOBULINA** Raf. Fl. Tellur. 4:110. 1836 [1838], *descr.*=*Utricularia* Linn.
crenata Raf. l.c., *nom.* (*Utricularia crenata* Vahl). Peru=*Utricularia aphylla* Ruiz & Pavon.
fibrosa Raf. l.c., *nom.* (*Utricularia fibrosa* Walt.). Eastern United States.
striata Raf. l.c., *nom.* (*Utricularia striata* Le Conte). Eastern United States=*Utricularia fibrosa* Walt.
- TRIXAPIAS** Raf. Fl. Tellur. 4:108. 1836 [1838], *descr.*=*Utricularia* Linn.
capillacea Raf. l.c., *nom.* (*Utricularia capillacea* Willd.). India.
- UTRICULARIA** Linn.
**aphylla* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
**pumila* Raf. Ilcc., *nom.*; Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.
**ramosa* Raf. Med. Repos. et Jour. Bot. Ilcc., *nom.* Long Island, New Jersey, Chesapeake Bay.
- VESICULINA** Raf. Fl. Tellur. 4:109. 1836 [1838], *descr.*=*Utricularia* Linn.
albiflora Raf. l.c., *nom.* (*Utricularia albiflora* R. Br.). Australia.
compressa Raf. l.c., *nom.* (*Utricularia compressa* R. Br.). Australia.
gibba Raf. l.c., *nom.* (*Utricularia gibba* Linn.). Eastern North America.
graminifolia Raf. l.c., *nom.* (*Utricularia graminifolia* R. Br.). Australia.
purpurea Raf. l.c., *nom.* (*Utricularia purpurea* Walt.). Eastern North America.
pygmaea Raf. l.c., *nom.* (*Utricularia pygmaea* R. Br.). Australia.
saccata Raf. l.c., *nom.* (*Utricularia saccata* Le Conte). South-eastern United States=*Utricularia purpurea* Walt. (*Vesiculina purpurea* Raf.).
setacea Raf. l.c., *nom.* (*Utricularia setacea* Michx.). Eastern North America=*Utricularia subulata* Linn.
tenella Raf. l.c., *nom.* (*Utricularia tenella* R. Br.). Australia =*Polypompholyx tenella* (R. Br.) Lehm.
- *XANANTHES** Raf. Fl. Tellur. 4:108. 1836 [1838], *nom. alt.* *Lentibularia* Adans.=*Utricularia* Linn.

ACANTHACEAE

- ACANTHODUS** Raf. Princ. Somiol. 26. 1814, *nom. nov.* *Acanthus* Linn.=seq.

- ACANTHUS** Linn.
rubens Raf. Fl. Ludovic. 36. 1817, *descr.* (*Acanthus mollis* sensu Rob. Voy. Louis. 3:380. 1807); New Fl. N. Am. 1:46. 1836, *descr.* Louisiana. An Labiatae?
- ADATODA** Raf. Fl. Tellur. 4:60. 1836 [1838], *descr.*=*Adhatoda* Medic. (1790).
arborea Raf. op. cit. 61, *nom.*, *sphalm.* "arborca" (*Justicia adhatoda* Linn.). India=*Adhatoda vasica* Nees.
betonica Raf. l.c., *nom.* (*Justicia betonica* Linn.). India.
repens Raf. l.c., *nom.* (*Justicia repens* Linn.). India=*Rungia repens* (Linn.) Nees.
- ADELODA** Raf. Fl. Tellur. 4:61. 1836 [1838], *descr.*=*Dicliptera* Juss. (1807), *nom. conserv.* (*Diapedium* Koenig, 1805).
**brachiata* Raf. Aut. Bot. 32. 1840, *descr.* (*Justicia brachiata* Pursh). Florida=*Dicliptera brachiata* (Pursh) Spreng. (*Diapedium brachiatum* O. Kuntze).
integra Raf. Fl. Tellur. l.c., *descr.* ([*Folium tinctorium*] Rumph. Herb. Amb. 6:51. t. 22. f. 1. 1750). Moluccas=*Peristrophe bivalvis* (Linn.) Merr.; see Merrill, Interp. Rumph. Herb. Amb. 476. 1917 (*P. tinctoria* Nees).
serrata Raf. l.c., *descr.* (*Adel-Odagam* Rheede, Hort. Malabar. 9:81. t. 43. 1689). India=*Peristrophe* sp.
**verticillata* Raf. Aut. Bot. 32. 1840, *descr.* Arkansas, Texas.
- AMATHEA** Raf. Fl. Tellur. 4:65. 1836 [1838], *descr.*=*Roslinia* Neck. 1790=*Aphelandra* R. Br. (1810).
pulchra Raf. l.c., *descr.* (*Justicia pulcherrima* Jacq.; Sel. Stirp. Am. Hist. Pict. t. 259. f. 1. 1780). Tropical America=*Aphelandra pulcherrima* (Jacq.) H.B.K.
- ANTHEILEMA** Raf. Fl. Tellur. 4:66. 1836 [1838], *descr.*=*Dipteracanthus* Nees (1832)=*Ruellia* Linn.
imbricata Raf. ex Jacks*. Ind. Kew. 1:143. 1893 (*Ruellia imbricata* Forsk.). Arabia=*Phayloopsis imbricata* (Forsk.) Sweet; Blatter.
paniculata Raf. Fl. Tellur. l.c., *nom.* (*Ruellia paniculata* Linn.; *Browallia alienata* Linn.). West Indies=*Dipteracanthus paniculatus* (Linn.) Nees=*Ruellia paniculata* Linn.
- *BLEXUM** Raf. Fl. Tellur. 4:65. 1836 [1838], *nom. sub* *Ruellia* Linn., *sphalm.*=*Blechnum* P. Br. (1756).
- *BUELLIA** Raf. Sylva Tellur. 4:66. 1836 [1838], *nom. sub* *Hygrophila* R. Br., *sphalm.*=*Ruellia* Linn.
- CALASIAS** Raf. Fl. Tellur. 4:64. 1836 [1838], *descr.*=*Anisotes* Nees (1847), *nom. conserv.* (*Calasias* Raf., 1838).
bracteata Raf. l.c., *descr.* (*Dianthera trisulca* Forsk.; *Justicia biflora* Lam.). Arabia=*Anisotes trisulcus* (Forsk.) Nees.
- #CANIRAMA** Raf. Fl. Tellur. 4:65. 1836 [1838], *nom.*, *subgen.* *Ruellia* Linn. (Type *Justicia gangetica* Linn.)=*Asystasia* Blume (1826).
- CARIMA** Raf. Fl. Tellur. 4:62 (err. 52). 1836 [1838], *descr.*=*Adhatoda* Medic. (1790).
sulcata Raf. l.c., *nom.* (*Justicia sulcata* Vahl; *Dianthera sulcata* Vahl). Arabia=*Adhatoda sulcata* (Vahl) Nees.
- CRATEOLA** Raf. Fl. Tellur. 4:64. 1836 [1838], *descr.*=*Anthacanthus* Nees. (1847).
parviflora Raf. ex Jacks*. Ind. Kew. 1:637. 1893 (*Justicia parviflora* Ortega). Mexico.
vinoides Raf. ex Jacks*. l.c. (*Justicia vinoides* Lam.). Madagascar=*Anthacanthus vinoides* (Lam.) Nees.
- CYMBURUS** sensu Raf. Fl. Tellur. 2:103. 1836 [1837], *descr.*, non Salisb. (1806)=*Elytraria* Michx. (1803), *nom. conserv.* (*Tubiflora* J. F. Gmel., 1791).
- squamosus* Raf. Fl. Tellur. 2:103. 1836 [1837], *descr.* (*Verbena squamosa* Jacq.; *Stachytarpheta squamosa* Vahl). South America=*Elytraria squamosa* (Jacq.) Lindau (*E. tridentata* Vahl).
- DIANTHERA** Linn.=*Justicia* Linn.
**ensiformis* Raf. Aut. Bot. 30. 1840, *descr.* (*Justicia ensiformis* Ell.; *J. pedunculosa* Michx.). New England to Carolina and Missouri=*Dianthera ensiformis* Walt.=*D. americana* Linn.=*Justicia americana* (Linn.) Vahl.
**formosa* Raf. op. cit. 29, *descr.* (*Justicia formosa* [Donn]) South America=*Beloperone formosa* Fenzl.
**heterophylla* Raf. op. cit. 30, *descr.* Carolina to Florida.
**humilis* Raf. Fl. Tellur. 4:52 1836 [1838], *nom.*; Aut. Bot. l.c., *descr.* (*Justicia humilis* Michx.). Alabama to Louisiana (*Dianthera ovata* Walt.; *Justicia *ovata* "Walt."; Small, Man. Southeast Fl. 1231. 1933, non E. Mey., nec Dietr.)=*Dianthera ovata* Walt.
**linearifolia* Raf. Aut. Bot. 29. 1840, *descr.* (*Justicia linearifolia* Lam.). Carolina to Florida=*Dianthera americana* Linn.
**longifolia* Raf. op. cit. 30, *descr.* Susquehanna River.

- **mollis* Raf. op. cit. 31, *descr.* (*Justicia lithospermifolia* Jacq.). South America=*Adhatoda lithospermifolia* (Jacq.) Nees.
- **pedunculosa* Raf. Fl. Tellur. 4:52. 1836 [1838], *nom.* [*Justicia pedunculosa* Michx.]. Eastern North America=*Justicia americana* Linn.
- **repanda* Raf. Aut. Bot. 30. 1840, *descr.* Arkansas
- DIMANISA** Raf. Fl. Tellur. 2:83. 1836 [1837], *descr.* = *Dianthera* Linn.=*Justicia* Linn.
- latifolia* Raf. op. cit. 84, *descr.* (*Justicia nodosa* Hook. Bot. Mag. 56: t. 2914. 1829). Brazil=*Dianthera nodosa* (Hook.) Benth. & Hook. f.=*Justicia nodosa* Hook.
- oblongata* Raf. l.c., *descr.* (*Justicia oblongata* Link & Otto). Brazil=*Beloperone plumbaginifolia* (Jacq.) Nees.
- ***DOTHICROA** Raf. Fl. Tellur. 4:63. 1836 [1838], *descr.* = *Phlogacanthus* Nees (1832).
- **guttata* Raf. l.c., *descr.* (*Justicia guttata* Wall.; Lindl. Bot. Reg. 16: t. 1334. 1830). India=*Phlogacanthus guttatus* (Wall.) Nees.
- †**EBERLEA** Riddell ex Raf. Aut. Bot. 34. 1840, *nom.*; Nees in DC. Prodr. 11:85. 1847, *nom.* in syn.=*Hygrophila* Linn.
- **geminata* Raf. Aut. Bot. 34. 1840, *descr.* sub *E. glomerata* Riddell (*Justicia chelonida* Raf. Fl. Ludovic. 39. 1817). Louisiana=? *Justicia humilis* Michx. (*Dianthera ovata* Walt.).
- †*glomerata* Riddell ex Raf. l.c., *descr.*; Nees in DC. Prodr. 11:86. 1847, *nom.* in syn. Louisiana=*Hygrophila lacustris* (Schlecht.) Nees.
- #**ECBOLIA** Raf. Fl. Tellur. 4:60. 1836 [1838], *descr.* subgen. *Justicia* Linn. (Types *Justicia ciliata* Pers.; *J. ecboium* Linn.)=*Ecbolium* Kurz (1871).
- EMULARIA** Raf. Fl. Tellur. 4:63. 1836 [1838], *nom.*, *nota* = *Justicia* Linn.
- ENDOMELAS** Raf. Fl. Tellur. 4:67. 1836 [1837], *descr.* = *Thunbergia* Retz. (1776), non Moutin, 1773, *nom. conserv.* (*Flemingia* Roxb., 1803, non Roxb. 1812; *Diplocalymma* Spreng., 1822).
- alata* Raf. l.c., *descr.* (*Thunbergia alata* Boj. ex Sims, Bot. Mag. 52: t. 2591. 1825). Zanzibar.
- ENSLENIA** Raf. Fl. Ludovic. 35. 1817, *descr.* (non Nutt. 1818); Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.*; New Fl. N. Am. 1:7. 1836, *nom.* = *Nelensia* Poir. (1823) = *Ruellia* Linn.
- bibracteata* Raf. Fl. Ludovic. l.c., *descr.* (*Polygala* Rob. Voy. Louis. 3:378. 1807). Louisiana = *Nelensia bibracteata* (Raf.) Poir. = *Ruellia strepens* Linn.
- ETHESIA** Raf. Fl. Tellur. 4:63. 1836 [1838], *descr.* = *Jacobinia* Moric. (1846), *nom. conserv.* (*Ethesia* Raf., 1838).
- carnea* Raf. op. cit. 64, *descr.* (*Justicia carnea* Lindl. Bot. Reg. 17: t. 1397. 1831). Brazil = *Jacobinia carnea* (Lindl.) Nichols. (*J. magnifica* Lindau).
- #**EUMALA** Raf. Aut. Bot. 31. 1840, *descr.*, sub *Dianthera mollis* Raf., subgen. *Dianthera* Linn. = *Justicia* Linn.
- #**EUPODANTHES** Raf. Fl. Tellur. 4:62 (err. 52). 1836 [1838], *descr.*, subgen. *Dianthera* Linn.; Aut. Bot. 30. 1840, *nom.* = *Justicia* Linn.
- FIMBROLINA** Raf. Sylva Tellur. 71. 1838, *descr.* = *Besleria* Linn.
- incarnata* Raf. l.c., *descr.* (*Besleria incarnata* Aubl.). Guiana.
- FLAVICOMA** Raf. Fl. Tellur. 4:63. 1836 [1838], *descr.* = *Schaueria* Nees (1838), *nom. conserv.* (*Flavicomma* Raf., 1838).
- capitata* Raf. l.c., *descr.* (*Justicia flavicomma* Lindl. Bot. Reg. 12: t. 1027. 1826). Brazil = *Schaueria flavicomma* (Lindl.) N. E. Br.
- paniculata* Raf. l.c., *descr.* (*Justicia calycotricha* sensu Hook. Exot. Fl. 3: t. 212. 1827; Hook. Bot. Mag. 2: t. 2816. 1828, non Link & Otto). Brazil = *Schaueria flavicomma* (Lindl.) N. E. Br. Gard. Chron. II. 19:14. 1883.
- #**GANDARUSA** Raf. Fl. Tellur. 4:60. 1836 [1838] (*Gendarussa* Rumph., 1743), *descr.*, subgen. *Justicia* Linn. (Type *Justicia gendarussa* Burm. f.) = *Gendarussa* Nees (1832) = *Justicia* Linn.
- ***GERARDIA** (Plumier) Raf. Fl. Tellur. 4:67. 1836 [1838], *descr.*⁴⁰ = *Stenandrium* Nees (1836).
- †*rupestris* Raf. l.c., *nom.* (*Ruellia rupestris* Sw.), non Raf. 1832. West Indies = *Stenandrium rupestre* Nees = *S. tuberosum* (Linn.) Urb.
- †*scabrosa* Raf. l.c., *nom.* (*Ruellia scabrosa* Sw.). [In Ind. Kew. 1:1022. 1893 sub *Gerardia* Linn. (Scroph.)]. West Indies = *Stenandrium scabrosum* (Sw.) Nees.
- GEUNSA** Neck.; Raf. Fl. Tellur. 4:61. 1836 [1838], *descr.* = *Hypoestes* Soland. (1810).
- †*fastuosa* Raf. l.c., *descr.*⁴¹ (*Justicia fastuosa* Linn.; *J. paniculata* Forsk.). India, Arabia = *Hypoestes fastuosa* (Linn.) R. Br. et H. forskalei R. Br.
- #**HEMELOSIA** Raf. Fl. Tellur. 4:66. 1836 [1838], *descr.*, subgen. *Ruellia* Linn. (Type *Ruellia strepens* Linn.) = *Ruellia* Linn.
- #**HIRSELINA** Raf. Fl. Tellur. 4:60. 1836 [1838], *descr.*, subgen. *Justicia* Linn. (Type *Justicia paniculata* Burm. f.) = *Andrographis* Wall. (1832).
- HYGROPHILA** R. Brown.
- balsamica* Raf. Fl. Tellur. 4:66. 1836 [1838], *nom.* [*Ruellia balsamica* Linn. f.]. India = *Cardanthera balsamica* (Linn.) Benth.
- **hypericifolia* Raf. Aut. Bot. 33. 1840, *descr.* Alabama to Florida.
- malabarica* Raf. Fl. Tellur. 4:66. 1836 [1838], *nom.* (*Ruellia ringens* Linn.). India = *Hygrophila ringens* (Linn.) R. Br. (*H. angustifolia* R. Br.).
- **ocymoides* Raf. l.c., *nom.* (*Ruellia ocymoides* Cav. Ic. 5: 9. t. 416. 1801). Mexico.
- oblongifolia* Raf. l.c., *nom.* (*Ruellia oblongifolia* Michx.); Aut. Bot. 32. 1840, *nom.* (*Ruellia oblongifolia* Michx.). Southeastern United States = *Dyschoriste oblongifolia* (Michx.) O. Kuntze (*Calophanes oblongifolius* D. Don).
- **pilosa* Raf. Aut. Bot. 32. 1840, *descr.* Kentucky, Alabama.
- IDANTHISA** Raf. Aut. Bot. 31. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* = *Anisacanthus* Nees (1842).
- ligustrina* Raf. l.c., *descr.* (*Justicia superba* [hort.]); Pennell, l.c., *nom.* "probably of E. Indies" = *Anisacanthus virgularis* (Salisb.) Nees.
- INTRUSARIA** Raf. Fl. Tellur. 4:66. 1836 [1838], *descr.* = *Asystasia* Blume (1826).
- bicolor* Raf. l.c., *nom.* (*Ruellia intrusa* Forsk.). Arabia = *Asystasia gangetica* (Linn.) T. Anders. (*A. coromandeliana* Nees).
- JANASIA** Raf. Fl. Tellur. 4:63. 1836 [1838], *descr.* = *Phlogacanthus* Nees (1832).
- rosea* Raf. l.c., *descr.* (*Justicia quadrangularis* Hook.; Lindl. Bot. Reg. 16: t. 1340. 1830). India = *Phlogacanthus asperulus* Nees.
- rubra* Raf. l.c., *descr.* (*Justicia quadrangularis* Hook. Bot. Mag. 55: t. 2845. 1828). "Madagascar" [or Mauritius] = *Phlogacanthus asperulus* Nees.
- JUSTICIA** Linn.
- chelonida* Raf. Fl. Ludovic. 39. 1817, *descr.* (*Amethystea* Rob. Voy. Louis. 3:386. 1807). Louisiana = ? *Justicia humilis* Michx. (*Dianthera ovata* Walt.).
- **dubia* Raf. Atl. Jour. 1:146. 1832, *nom.* (*Justicia* sp. Torr. Ann. Lyc. Nat. Hist. New York 2:235. 1827, sub *J. brachiatata* Pursh). Arkansas River?
- **superba* Raf. Aut. Bot. 31. 1840, *nom.* sub *Idanthisa ligustrina* Raf. Prob. = *Justicia superba* hort. ex Nees in DC. Prodr. 11:445. 1847 = *Anisacanthus virgularis* (Salisb.) Nees, l.c. Mexico.
- KUNIRIA** Raf. Fl. Tellur. 4:61. 1836 [1838], *descr.* = *Dicliptera* Juss. (1807), *nom. conserv.* (*Diapedium* Koenig, 1805).
- falcata* Raf. l.c., *nom.* (*Justicia falcata* Lam.). Mascarene Islands = *Dicliptera falcata* (Lam.) Poir. (*D. laevigata* Juss.).
- malabarica* Raf. l.c., *nom.* (*Justicia malabarica* Ait.). Indo-Malaysia = *Peristrophe bicalyculata* (Retz.) Nees.
- #**LARNAPLAGIS** Raf. Aut. Bot. 29. 1840, sub *Dianthera formosa* Raf., *descr.*, subgen. *Dianthera* Linn. = *Justicia* Linn.
- #**LONCOTOMA** Raf. Fl. Tellur. 4:60. 1836 [1838], *descr.*, subgen. *Justicia* Linn. (Type *Justicia carthaginensis* Jacq.) = *Beloperone* Nees (1832).

⁴⁰ *Gerardia* Linn. was, in a strict sense, based on *Gerardia humilis*, *bugulae foliis*, *asphodeli radice* Plumier, Gen. 31. t. 12. 1703, which is the acanthaceous *Stenandrium* Nees (1836). Small, Man. Southeast. Fl. 1229. 1833, retained the Linnaean name for the acanthaceous group. See Pennell's discussion,

Acad. Nat. Sci. Phila. Monog. 1:419. 1935, who retains *Gerardia* (Linnaeus, pro parte) Bentham for the large scrophulariaceous group. The genotype of this is *Gerardia purpurea* Linn.

⁴¹ In *Index Kewensis* 1:1026. 1895, erroneously entered under the verbenaceous genus *Geunsia* Blume.

- LUSTRINIA** Raf. Fl. Tellur. 4:62 (err. 52). 1836 [1838], *descr.* = *Justicia* Linn. (*Dianthera* Linn.).
geniculata Raf. l.c., *descr.* (*Justicia geniculata* Sims Bot. Mag. 51: t. 2487. 1824). West Indies = *Justicia secunda* Vahl (*Dianthera secunda* Griseb.).
- MARAMA** Raf. Fl. Tellur. 4:62 (err. 52). 1836 [1838], *descr.* = *Graptophyllum* Nees (1832).
picta Raf. l.c., *descr.* (*Justicia picta* Linn.). India = *Graptophyllum pictum* (Linn.) Griff.
- MEIOSPERMA** Raf. Fl. Tellur. 4:64. 1836 [1838], *descr.* = *Justicia* Linn.
debilis Raf. ex Jacks*. Ind. Kew. 2:186. 1894 (*Dianthera debilis* Forsk.). Arabia = *Justicia debilis* (Forsk.) Lam.
- OPLONIA** Raf. Fl. Tellur. 4:64. 1836 [1838], *descr.* = *Anthacanthus* Nees (1847).
spinosa Raf. op. cit. 65, *descr.* (*Justicia spinosa* Jacq.). South America = *Anthacanthus spinosus* (Linn.) Nees.
- #OSMULARIA** Raf. Fl. Tellur. 4:62 (err. 52). 1836 [1838], *descr.*, subgen. *Dianthera* Linn. (Type *Dianthera odora* Forsk.) = *Adhatoda* Medic. (1790).
- #OXIMULA** Raf. Fl. Tellur. 4:62 (err. 52). 1836 [1838], *descr.*, subgen. *Dianthera* Linn. (Type *Dianthera eustachiana* J. F. Gmel.) = *Justicia* Linn.
- PANEMATA** Raf. Fl. Tellur. 4:64. 1836 [1838], *descr.* = *Gymnostachyum* Nees (1832).
zeylonica Raf. l.c., *descr.* (*Justicia sanguinolenta* Vahl). Ceylon = *Gymnostachyum sanguinolentum* (Vahl) T. Anders.
- PETALANTHERA** Raf. Fl. Tellur. 2:100. 1836 [1837], *descr.*, non Nutt. (1834), nec Nees (1833) = *Adhatoda* Medic. (1790).
punctata Raf. l.c., *descr.* (*Justicia ventricosa* Wall.; Hook. Bot. Mag. 54: t. 2766. 1827). China = *Adhatoda ventricosa* (Wall.) Nees.
- PLEUREMIDIS** Raf. Fl. Tellur. 4:67. 1836 [1838], *descr.* = *Thunbergia* Retz. (1776), non Moutin, 1773, *nom. conserv.*
grandiflora Raf. l.c., *descr.* (*Thunbergia grandiflora* Roxb.; Ker-Gawl. Bot. Reg. 6: t. 495. 1820). India.
- #PULCOLIA** Raf. Fl. Tellur. 4:60. 1836 [1838], *descr.* subgen. *Justicia* Linn. (Type *Justicia nasuta* Linn.) = *Rhinacanthus* Nees (1832).
- RODATIA** Raf. Aut. Bot. 31. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* Ex *descr.* = *Beloperone* Nees (1832).
reticulata Raf. l.c., *descr.* (*Justicia formosa* auct.); Pennell, l.c., *nom.* South America.
- RUELLIA** Linn.
oblongifolia Raf. ex Nees in DC. Prodr. 11:123. 1847, *nom.* in syn. = *Dipteracanthus ciliatus* (Pursh) Nees, var. *hybridus* Nees. Southeastern United States.
- SARCANTHERA** Raf. Fl. Tellur. 4:64. 1836 [1838], *descr.* = *Gymnostachyum* Nees (1832).
venusta Raf. l.c., *descr.* (*Justicia venusta* Wall.; Lindl. Bot. Reg. 16: t. 1380. 1831). Bengal = *Gymnostachyum venustum* (Wall.) T. Anders.
- SENKEBERGIA** Neck.; Raf. Sylva Tellur. 70. 1838, *descr.* = *Mendoncia* Vell. (1788).
debilis Raf. l.c., *nom.* (*Besleria bivalis* Linn. f.) Surinam = *Picria surinamensis* Spreng. (1826) = *Mendoncia bivalvis* (Linn. f.) Merr., Jour. Arnold Arb. 29:213. 1948 (*Mendoncia perrottetiana* Nees, 1847).
- STETHOMA** Raf. Fl. Tellur. 4:61. 1836 [1838], *descr.* (*Psacadocalymma* Bremek., 1948). *Justicia* Linn.
pectoralis Raf. l.c., *descr.* (*Justicia pectoralis* Jacq. Sel. Stirp. Am. 3. t. 3. 1763; Ker-Gawl. Bot. Reg. 10: t. 796. 1824). West Indies (*Psacadocalymma pectorale* Bremek. Verh. Nederl. Akad. Wetensch. Afd. Natuurk. Tweede Sect. 45(2):55. 1948).
- STREPSIPHUS** Raf. Fl. Tellur. 2:91. 1836 [1837], *descr.* = *Peristrophe* Nees (1832).
speciosus Raf. l.c., *descr.* (*Justicia speciosa* Roxb.; Hook. Bot. Mag. 54: t. 2722. 1827). Bengal = *Peristrophe speciosa* (Roxb.) Nees.
- TRIXANTHERA** Raf. Sylva Tellur. 146. 1838, *descr.* = *Trichanthera* H.B.K. (1817).
angularis Raf. l.c., *descr.* (*Ruellia gigantea* Humb. & Bonpl.). South America = *Trichanthera gigantea* Humb. & Bonpl.
- UPUDALIA** Raf. Fl. Tellur. 4:66. 1836 [1838], *descr.* = *Daedalacanthus* T. Anders. (1864).
pulchella Raf. l.c., *nom.*, *nota* (*Ruellia varians* Vent. Jard. Cels. 46. t. 46. 1800; *Eranthemum pulchellum* Andr. Bot. Repos. 2: t. 88. 1800). India = *Daedalacanthus varians* (Vent.) Voss (*D. nervosus* T. Anders.).

- URANTHERA** Raf. Fl. Tellur. 4:62. 1836 [1838], *descr.*, subgen. *Dianthera* Linn.; Aut. Bot. 31. 1840, *nom.* (Type, *Dianthera secundiflora* Ruiz & Pavon) = *Justicia* Linn.
- XERALIS** Raf. Sylva Tellur. 82. 1838, *nom. nov. provis.* *Charachera* Forsk., sub. *Batindum jasmineum* Raf. = *Charachera* Forsk. (1775).
- ZONABLEPHIS** Raf. Sylva Tellur. 143. 1838, *descr.* = *Acanthus* Linn.
polistachys Raf. op. cit. 144, *descr.* (*Acanthus polistachys* Delile in Caill. Voy. Meroë 4:362. t. 62. fig. 2. 1826). Tropical Africa.

MYOPORACEAE

- BATINDUM** Raf. Sylva Tellur. 81. 1838, *descr.* = *Oftia* Adans. (1763).
jasmineum Raf. op. cit. 82, *descr.* (*Lantana africana* Linn.). South Africa = *Oftia africana* (Linn.) Bocq.

PHRYMACEAE

- PHRYMA** Linn.
media Raf. New Fl. N. Am. 2:37. 1836 [1837], *descr.* Kentucky = *Phryma leptostachya* Linn.
parvifolia Raf. op. cit. 38, *descr.* Alleghany Mountains = *Phryma leptostachya* Linn.
pubescens Raf. l.c., *descr.* Alleghany Mountains = *Phryma leptostachya* Linn.

PLANTAGINACEAE

- LITTORELLA** Berg.
flexuosa Raf. New Fl. N. Am. 4:12. 1836 [1838], *descr.*; Aut. Bot. 10. 1840, *nom.* Alabama, Arkansas = *Plantago* sp.
- PLANTAGO** Linn.
accedens Raf. Fl. Ludovic. 33. 1817, *descr.* (Plantain 4, Rob. Voy. Louis. 3:375. 1807). Louisiana.
albiflora Raf. New Fl. N. Am. 4:11. 1836 [1838], *descr.* Western Kentucky and Tennessee.
amblodes Raf. op. cit. 12, *descr.* Arkansas and Yazoo Rivers.
atrofusca Raf. Atl. Jour. 1:150. 1832, *descr.*; Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 4:11, 12. 1836 [1838], *nom.* Western Kentucky and southern Illinois.
**balduini* Raf. New Fl. N. Am. 4:12. 1836 [1838], *nom.*
**brevifolia* Raf. l.c., *nom.*
**breviscapis* Raf. l.c., *nom.*
compressa Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.*; M'Murtrie, Sketch, Louisv. 223. 1819, *nom.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; New Fl. N. America 4:12. 1836 [1838], *nom.* Kentucky.
**crassifolia* Raf. New Fl. N. Am. 4:12. 1836 [1838], *nom.*
†dasyura Raf. Am. Monthly Mag. Crit. Rev. 4:191. 1819, *nom.*, *nota* (*P. gnaphaloides* Nutt.); First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom. nov.* *P. lagopus* sensu Pursh; Herb. Raf. 39. 1833, *nom.* North America = *P. purshii* Roem. & Schultes.
**elliptica* Raf. Herb. Raf. 52. 1833, *nom.*; New Fl. N. Am. 4:12. 1836 [1838], *nom.* Rocky Mountains or Oregon.
**eriorhiza* Raf. Herb. Raf. 67. 1833, *nom.*; New Fl. N. Am. 4:12. 1836 [1838], *nom.* Cumberland Mountains.
gibbosa Raf. Am. Monthly Mag. Crit. Rev. 2:344. 1818, *nom. nov. provis.* *P. maritima* sensu Bigel. Eastern North America = *P. oliganthos* Roem. & Schultes; see Fernald, Rhodora 27:93, 102. 1925.
**glaucia* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
globosa Raf. New Fl. N. Am. 4:11. 1836 [1838], *descr.* Southern New Jersey to Florida.
gonophylla Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Atl. Jour. 1:18, *nom.*, 149, *descr.*, 1832; Herb. Raf. 61. 1833, *nom.* (*gonophylla*); New Fl. N. Am. 4:12. 1836 [1838], *nom.* (*gonophylla*). Kentucky, Ohio, Illinois.
linearis Raf. New Fl. N. Am. 4:11. 1836 [1838], *descr.* Florida.
**longipes* Raf. op. cit. 12, *nom.*
ludoviciana Raf. Fl. Ludovic. 33. 1817, *descr.* (*Plantago virginica* sensu Rob. Voy. Louis. 2:375. 1807). Louisiana.
multinervis Raf. New Fl. N. Am. 4:10. 1836 [1838], *descr.* Florida.
**peregrina* Raf. l.c., *nom.*
**pubescens* Raf. Herb. Raf. 52. 1833, *nom.* Rocky Mountains or Oregon.

- **pyncnanthes* Raf. New Fl. N. Am. l.c., *nom.*
 **repanda* Raf. New Fl. N. Am. 4:12. 1836 [1838], *nom.*
 **riparia* Raf. l.c., *nom.*
 **rotundifolia* Raf. l.c., *nom.*
 **serotina* Raf. First Cat. Bot. Gard. Transyl. Univ. 15. 1824, *nom.* Kentucky.
 **serpentaria* Raf. New Fl. N. Am. 4:12. 1836 [1838], *nom.*
texensis Raf. op. cit. 11, *descr.* Texas and Arkansas.
 **undulata* Raf. op. cit. 12, *nom.*
 #**XAMOTRIS** Raf. New Fl. N. Am. 4:12. 1836 [1838], *descr.*,
 subgen. *Littorella* Linn. (Type, *Littorella flexuosa* Raf.) =
Plantago Linn.

RUBIACEAE

- ACMOSTIMA** Raf. Sylva Tellur. 26. 1838, *descr.* = *Palicourea*
 Aubl. (1775).
brevifolia Raf. l.c., *descr.* (*Pavetta pentandra* Sw.). West
 Indies = *Palicourea domingensis* (Jacq.) DC.
longifolia Raf. l.c., *descr.* (*Pavetta barbata* Sm.) "Shrub of
 Polinesia" (Rafinesque), "in Hominoa" (Smith) = *Saporocea*
 near *Ceram*, *Moluccas* = *Polyozus* ? *barbata* DC. = ? *Can-*
thium sp.; see Bremekamp, Repert. Sp. Nov. 37:14. 1934.
ANSTELMA Raf. Aut. Bot. 69. 1840, *nom. nov.* *Stelmanis*
 Raf. (1840), non *Stelmanis* Raf. (1837); Pennell, Bull. Torr.
 Bot. Club 48:92. 1921 (*Oldenlandia glomerata* Michx.) =
Oldenlandia Linn. = *Hedyotis* Linn.
ANTHOSPERMUM Linn.
 **ethiopicum* Raf. First Cat. Bot. Gard. Transyl. Univ. 20.
 1824, *nom.* = *A. aethiopicum* Linn.
APARINE Mill. = *Galium* Linn.
viscidiflora Raf. Ann. Nat. Ann. Synop. 14. 1820, *descr.* Alle-
 ghany Mountains of Maryland.
AXOLUS Raf. Sylva Tellur. 61. 1838, *descr.* = *Cephalanthus*
 Linn.
angustifolius Raf. l.c., *descr.* (*Cephalanthus angustifolius*
 Lour.) Indo-China (Annam) = *Cephalanthus angustifolius*
 Lour.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):363.
 1935.
 ***BARTRAMIA** Bartram, Trav. xviii. 1791, *nom.*; Raf. Casket
 1827:194. 1827, *nom.*, sub *Pinckneya bracteata* Raf., non
Bartramia Linn. (1753), nec Hedw. (1789) = *Pinckneya*
 Michx. (1803); see Merrill, *Bartonia* 23:23. 1945.
BELILLA Raf. Ann. Gén. Sci. Phys. 6:82. 1820, *nom.* [*Belilla*
 Adans. (1763); *Belilla* Rheede, Hort. Malabar. 2:27. t. 18.
 1679] = *Mussaenda* Linn.
BEMSETIA Raf. Sylva Tellur. 12. 1838, *descr.* = *Ixora* Linn.
paniculata Raf. l.c., *descr.* (*Bem-Scheti* Rheede, Hort.
 Malabar. 2:19. t. 14. 1679; *Ixora barbata* Roxb.; Sims,
 Bot. Mag. 51: t. 2505. 1824). India = *Ixora alba* Linn., p.p.,
 quoad *Bem-Scheti*, et *Ixora barbata* Roxb.
BENKARA Adans.; Raf. Sylva Tellur. 98. 1838, *descr.* = *Randia*
 Linn.
galia Raf. l.c., *nom.* (*Benkara* Rheede, Hort. Malabar. 5:69.
 t. 35. 1685). India = *Randia* sp.
BENTECA Adans.; Raf. Sylva Tellur. 13. 1838, *descr.*⁴² =
Hymenodictyon Wall. (1824).
odorata Raf. l.c., *descr.* (*Bentheka* Rheede, Hort. Malabar.
 4:63. t. 30. 1673 [1683]). India = *Hymenodictyon excelsum*
 (Roxb.) Wall. (1824).
BUBALINA Raf. Ann. Gén. Sci. Phys. 6:86. 1820, *nom. nov.*
provis. (Type, *Lonicera bubalina* Linn. f.) = *Burchellia* R.
 Br. (1820).
 ***CALICOCA** Raf. Sylva Tellur. 147. 1838, *nom. sub* *Ipecacuana*
 Raf. = *Callicocca* Schreb. (1789) = *Cephaelis* Sw. (1788),
nom. conserv. (*Carapichea* Aubl., 1775; *Evea* Aubl., 1775;
Tapogomea Aubl.; 1775; *Chesna* Scop., 1777).
 ***CALICOCCA** Raf. Med. Fl. 1:184. 1828, *nom.*, iter. Man. Med.
 Bot. 184. 1841 = *praec.*
CEPHALANTHUS Linn.
acuminatus Raf. New Fl. N. Am. 3:25. 1836 [1838], *nom.*
nov. *C. occidentalis* Linn. North America.

- †*obtusifolius* Raf. Herb. Raf. 57. 1833, *nom.*; New Fl. N.
 Am. l.c., *descr.* Kentucky, Missouri = *C. occidentalis* Linn.
pubescens Raf. New Fl. N. Am. l.c., *nom.* = *C. occidentalis*
 Linn. var. *pubescens* Raf.
occidentalis Linn.
 var. *macrophylla* Raf. Med. Fl. 1:101. 1828, *descr.*, iter.
 Man. Med. Fl. 101. 1841. Louisiana.
obtusifolius Raf. op. cit. 102, *descr.*, New York.
pubescens Raf. l.c., *descr.* Georgia.
 #**CHAMISME** Raf. Ann. Gén. Sci. Phys. 5:227. 1820, *descr.*,
 subgen. *Houstonia* Linn. (Type *Houstonia purpurea* Linn.);
 Steud. Nomencl. ed. 2, 1:776. 1840, *nom.* in syn. = *Hous-*
tonia Linn.
CHIOCOCCA P. Browne.
floridana Raf. Alsogr. Am. 75. 1838, *descr.* (*Chiococca race-*
mosa auct. Am.). Florida = *C. alba* (Linn.) Hitchc.
latifolia Raf. l.c., *descr.* Cuba = *C. alba* (Linn.) Hitchc.
 **secundiflora* Raf. l.c., *nom. nov.* *Chiococca racemosa* Linn.
 West Indies = *C. alba* (Linn.) Hitchc.
 #**CHRISTIMIA** Raf. Ann. Gén. Sci. Phys. 5:226. 1820, *descr.*
 subgen. *Houstonia* Linn.
COFFEA Linn.
 **zanguebarica* Raf. Sylva Tellur. 164. 1838, *nom. sub* *Hexepta*
 Raf. Zanzibar = *Coffea zanguebariae* Lour.
CORMIGONUS Raf. Ann. Gén. Sci. Phys. 6:83. 1820, *nom.*
 (*Portlandia tetrandra* Forst.) = *Bikkia* Reinw. (1826), *nom.*
conserv. (*Cormigonus* Raf., 1820).
 ***CORMYLUS** Raf. Ann. Gén. Sci. Phys. 5:225. 1820, *descr.*,
 gen. vel subgen. *Hedyotis* Linn. (Type *Hedyotis hispida*
 Retz.) = *Hedyotis* Linn.
CUPUIA Raf. Princ. Somiol. 29. 1814, *nom. nov.* *Coupoui* Aubl.
 (1775); see Wernham, Jour. Bot. 58:105-108. 1920 = *Cou-*
poui Aubl. (Rubiaceae, not Apocynaceae).
 ***CUPUYA** Raf. Fl. Tellur. 1:85. 1836 [1837], *nom. nov.* *Cou-*
poui Aubl. (1775) = *praec.*
DARLUCA Raf. Ann. Gén. Sci. Phys. 6:87. 1820, *nom.* (*Ixora*
americana Linn.) = *Bouvardia* Salisb. (1805).
 ***DECAPENTA** Raf. Act. Soc. Linn. Bordeaux 6:269. 1834.
descr., iter. Merr. Proc. Am. Philos. Soc. 86:89. 1942,
 non Raf. (1838) = *Diodia* Linn.
DIODIA Linn.
oblonga Raf. Fl. Ludovic. 76. 1817, *descr.* (*Crucianella* 1 Rob.
 Voy. Louis. 3:452. 1807). Louisiana.
 ***DIONEIDON** Raf. Act. Soc. Linn. Bordeaux 6:269. 1834,
descr., iter. Merr. Proc. Am. Philos. Soc. 86:89. 1942, op.
 cit. 90, *nom.* = *Diodia* Linn.
DUAMELIA Raf. Ann. Gén. Sci. Phys. 6:82. 1820, *nom. nov.*
Hamelia Linn. (*Hamelia* Jacq.) = *Hamelia* Jacq., 1760
 (*Duhamelia* Pers., 1805).
DYCHOTRIA Raf. Ann. Gén. Sci. Phys. 6:85. 1820, *nom.*,
sphalm. = *Psychotria* Linn.
EDRASTENIA Raf. ex Jacks* Ind. Kew. 1:822. 1893, *sphalm.*
 = *seq.*
uniflora Raf. ex Jacks* l.c. = *Edrastima uniflora* Raf. = *Hedyo-*
tis uniflora (Linn.) Lam. Eastern North America.
 ***EDRASTIMA** Raf. Act. Soc. Linn. Bordeaux 6:269. 1834,
nom., *nota*, iter. Merr. Proc. Am. Philos. Soc. 86:88. 1942,
 op. cit. 90, *nom.*; New Fl. N. Am. 4:101. 1836 [1838],
nom. (*Oldenlandia uniflora* Linn.) = *Hedyotis* Linn.
 **uniflora* Raf. l.c., *nom.*, *nota*, iter. Merr. l.c., *nom.* (*Hedyotis*
uniflora Lam.). Eastern North America = *Hedyotis uni-*
flora (Linn.) Lam. (*Oldenlandia uniflora* Linn.).
 #**EDRISIA** Raf. Ann. Gén. Sci. Phys. 5:225. 1820, *descr.*
 (*Poiretia* Gmel.), subgen. *Houstonia* Linn.
ENDOPOGON Raf. Fl. Tellur. 2:54. 1836 [1837], *descr.*, non
 Raf. 1818 = *Diodia* Linn.
pumilus Raf. op. cit. 55, *descr.*; Aut. Bot. 13. 1840, *nom.*
 Wasiooto Hills, eastern Kentucky = *Diodia teres* Walt.
ERESIMUS Raf. Sylva Tellur. 61. 1838, *descr.* = *Cephalan-*
thus Linn.
stellatus Raf. l.c., *descr.* (*Cephalanthus stellatus* Lour.). Indo-
 China (Annam) = *Cephalanthus angustifolius* Lour.; see
 Merr. Trans. Am. Philos. Soc. II. 24(2):363. 1935.
ERITHALIS P. Browne.
elliptica Raf. Sylva Tellur. 123. 1838, *descr.* (*E. fruticosa*
sensu Sw.). Jamaica = *E. fruticosa* Linn.
procumbens Raf. l.c., *descr.* Venezuela (Caracas).
 #**ETOROTIS** Raf. New Fl. N. Am. 4:102. 1836 [1838], sub
Houstonia biloba Raf., *nom.*, *nota*, subgen. *Houstonia* Linn.

⁴² *Benteca* Adans. (1763), *Benteka* Adans. (1763), *Bentheka* Neck. (1790) and the binomial *Benteka rheedi* Roem. & Schult. are all based on *Bentheka* Rheede, Hort. Malabar. 4:63. t. 30. 1673 [1683]. The three generic names are all currently but erroneously placed as synonyms or probable synonyms of the South American apocynaceous genus *Ambelania* Aubl. (1775). The Rheede illustration clearly represents the rubiaceous *Hymenodictyon* Wall. The latter ought to be conserved against *Benteka* Adans.

GALIUM Linn.

- **aparinoides* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:344. 1818, *nom.*, *nota* (*G. aparine* sensu Bigelow); M'Murtrie, Sketch. Louisv. 217. 1819, *nom.*, non Forsk. (1775). Eastern United States=*Galium aparine* Linn.
- **cuspidatum* Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.*. Eastern United States.
- longicaule* Raf. Fl. Ludovic. 75. 1817, *descr.* (*Galium* 2 Rob. Voy. Louis. 3:452. 1807). Louisiana.
- parviflorum* Raf. Med. Repos. II. 5:360. 1808, *descr.*; Jour. Bot. (Paris) 1:227. 1809, *descr.*, non Moench (1794). Delaware.
- **setaceum* Raf. Atl. Jour. 1:17. 1832, *descr.*, non Lam. (1788). Illinois.
- spinulosum* Raf. Précis Découv. Somiol. 40. 1814, *descr.*; Jour. Bot. (Desv.) 4:270. 1814, *descr.*, non Méral (1812). Maryland.
- **viscidum* Raf. Herb. Raf. 66. 1833, *nom.*. Appalachian Mountains.
- GARDENIA** Ellis (1761), non Colden, 1756, nec Boehm., 1760, *nom. conserv.* (*Warneria* Linn., 1759; *Varneria* Linn., 1759).
- **thunbergiana* Raf. Sylva Tellur. 21. 1838, *nom.* sub *Thunbergia* Linn. f.=*Gardenia thunbergia* Linn. f. South Africa.
- GILIPUS** Raf. Sylva Tellur. 61. 1838, *descr.*=*Cephalanthus* Linn.
- montanus* Raf. l.c., *descr.* (*Cephalanthus montanus* Lour.). Southeastern China=*Cephalanthus occidentalis* Linn.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):364. 1935.
- #**GONIOTIS** Raf. New Fl. N. Am. 4:102. 1836 [1838], *nom.* subgen. *Houstonia* Linn. (Type *Houstonia geniculata* Raf.).
- HEDYOTIS** Linn.
- crassifolia* Raf. Fl. Ludovic. 77. 1817, *descr.* (*Anonyme* 1 Rob. Voy. Louis. 1:454. 1807). Louisiana.
- †*geniculata* Raf. Herb. Raf. 67. 1833, *nom.*; New Fl. N. Am. 2:21. 1836 [1837], *descr.* Kentucky (Wasioto Hills).
- rosea* Raf. Fl. Ludovic. 77. 1817, *descr.* (*Anonyme* 2 Rob. l.c.). Louisiana.
- HEXEPTEA** Raf. Sylva Tellur. 164. 1838, *descr.*=*Coffea* Linn.
- axillaris* Raf. l.c., *descr.* (*Coffea zanguebariae* Lour.). Zanzibar=*Coffea zanguebariae* Lour.; see Merrill, Trans. Am. Philos. Soc. II. 24(2):369. 1935.
- racemosa* Raf. l.c., *descr.* (*Coffea racemosa* Lour.). Mozambique=*Coffea racemosa* Lour.; see Merrill, l.c.⁴³
- HOUSTONIA** Linn.
- **biloba* Raf. New Fl. N. Am. 4:101. 1836 [1838], *descr.* Arkansas.
- **ciliata* Raf. Ann. Gén. Sci. Phys. 5:226. 1820, *descr.* New York (Glenns Falls)=*H. ciliolata* Torr. (1824)=*H. canadensis* Willd. (1818).
- †*fruticosa* Raf. Western Rev. Miscel. Mag. 1:93. 1819, *nom.*; A. Gray, Syn. Fl. N. Am. 1(2):26. 1884, *nom.*, in syn. Kentucky=*Houstonia angustifolia* Michx.
- geniculata* Raf. New Fl. N. Am. 4:102. 1836 [1838], *descr.* Kentucky.
- grandiflora* Raf. Ann. Gén. Sci. Phys. 5:225. 1820, *nom. nov.* *H. caerulea* Linn. (*H. linnaei* Michx.). North America=*Houstonia caerulea* Linn.
- heterophylla* Raf. op. cit. 227. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 63. 1833, *nom.* (*H. ciliolata* Torr.). Kentucky=*H. canadensis* Willd. var. *ramosa* Raf. Ann. Gén. Sci. Phys. 5:227. 1820, *nom.*
- **longifolia* Raf. Herb. Raf. 63. 1833, *nom.* Kentucky or Illinois.
- oblongifolia* Raf. Ann. Gén. Sci. Phys. 5:226. 1820, *descr.* New York.
- obtusifolia* Raf. l.c., *descr.* Maryland, Virginia, Kentucky.
- **ochroleuca* Raf. Ann. l.c., *descr.*, *sphalm.* "*ochroleuca*" (*Houstonia coccinea* Andr. var. *alba* Dum. Cours.). Mexico=*Bouvardia triphylla* Salisb.=*B. coccinea* (Andr.) Link.
- pubescens* Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:230. 1809, *descr.*; Ann. Gén. Sci. Phys. 5:227. 1820, *descr.* Pennsylvania, Ohio.
- reticulata* Raf. New Fl. N. Am. 4:102. 1836 [1838], *descr.* Alabama.
- var. *triflora* Raf. l.c., *descr.*

⁴³ Dr. A. Chevalier, in *lit.*, states that in addition to the synonyms given by me, all based on *Coffea racemosa* Lour., the following species belong here: *Coffea ibo* Froehner (1897), *C. schumanniana* Busse (1902), and *C. swinertonii* Moore (1911).

- rupestris* Raf. Ann. Gén. Sci. Phys. 5:226. 1820, *descr.*; Ann. Nat. Ann. Synop. 12. 1820, *descr.*, *sphalm.* "*ropestris*"; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 63. 1833, *nom.*, *sphalm.* "*rupestris*." Kentucky.
- IPECACUANA** Raf. Sylva Tellur. 147. 1838, *descr.*=seq.
- **fusca* Raf. l.c., *nom.* (*Callicocca ipecacuanha* Brot.; *Cephaelis ipecacuanha* A. Rich.; *Psychotria emetica* Linn. f.). South America=*Uragoga emetica* (Linn. f.) Baill.
- IPECACUANHA** Arruda (1810)=*Uragoga* Linn.
- fusca* Raf. ex Jacks*. Ind. Kew. 1:1222. 1893 (*Ipecacuana fusca* Raf.). South America=*Uragoga emetica* (Linn. f.) Baill.
- JANGARACA** Raf. Ann. Gén. Sci. Phys. 6:82. 1820, *nom.*, *sphalm.*=*Tangaraca* Adans. (1763)=*Hamelia* Jacq. (1760) (*Duhamelia* Pers., 1805).
- JOCAYENA** Raf. Ann. Gén. Sci. Phys. 6:82. 1820, *nom.*, *sphalm.*=*Tocoyena* Aubl. (1775).
- JONTANEA** Raf. Ann. Gén. Sci. Phys. 6:82. 1820, *nom.*, *sphalm.*=*Tontanea* Aubl. (1775)=*Coccocypselum* P. Br. (1756).
- JURGENSIA** Raf. Sylva Tellur. 146. 1838, *descr.*=*Spermacoce* Linn.
- psyllioides* Raf. op. cit. 147, *descr.* (*Spermacoce psyllioides* H.B.K.). Mexico.
- KANDENA** Raf. Sylva Tellur. 138. 1838, *descr.*=*Canthium* Lam. (1785).
- spinosa* Raf. l.c., *descr.* (*Kanden-Kara* Rheede, Hort. Malabar. 5:71. t. 36. 1685). India (Malabar)=*Canthium parviflorum* Lam.
- MATTUSKEA** Raf. Princ. Somiol. 30. 1814, *nom. nov.* *Mattuschkaea* Schreb. (1791)=*Perama* Aubl. (1775).
- MUSSAENDA** Linn.
- **bracteata* Raf. Casket 1827:194. 1827, *nom.* sub *Pinckneya bracteata* Raf.; Sat. Eve. Post 6(303):[4]. 1827, *nom.* (*Pinckneya bracteata* Raf.); Med. Fl. 2:58. 1830, *nom.* Southeastern United States=*Pinckneya pubens* Michx.
- MYRSSIPHYLLA** Raf. ex Jacks*. Ind. Kew. 2:286. 1894, *sphalm.*=*Myrstiphylla* Raf.=*Psychotria* Linn.
- rigida* Raf. ex Jacks*. l.c., *sphalm.*=*Myrstiphylla rigida* Raf.=*Psychotria myrstiphyllum* Sw. Jamaica.
- ***MYRSTIPHYLLA** Raf. Sylva Tellur. 148. 1838, *descr.*=*Myrstiphyllum* P. Br.=*Psychotria* Linn.
- **rigida* Raf. l.c., *nom.* (*Psychotria myrstiphyllum* Sw. [*Myrstiphyllum* P. Br. Nat. Hist. Jam. 152. 1756]). Jamaica.
- NAREGA** Raf. Sylva Tellur. 98. 1838, *descr.* (*Catunaregam* Adans.)=*Randia* Linn.
- coduva* Raf. l.c., *nom.* (*Catu-Naregam* Rheede, Hort. Malabar. 4:29. t. 13. 1683). Malabar=*Randia dumetorum* Lam.
- NELEIXA** Raf. New Fl. N. Am. 4:56. 1836 [1838], *nom. alt.* Darluca Raf.=*Famea* Aubl. (1775).
- NETTLERA** Raf. Sylva Tellur. 147. 1838, *nom. nov.* *Carapichea* Aubl.=*Cephaelis* Sw. (1788), *nom. conserv.* (*Carapichea* Aubl., 1775; *Evea* Aubl., 1775; *Tapogomea* Aubl., 1775; *Chesna* Scop., 1777).
- guianensis* Raf. l.c., *nom.* (*Carapichea guianensis* Aubl.; *Cephaelis involucreata* Willd.). Guiana=*Cephaelis guianensis* (Aubl.) Bremek.
- #**OSMAX** Raf. Sylva Tellur. 26. 1838, *nom. nov. provis.*, gen. vel subgen., sub *Acmostima brevifolia* Raf.=*Palicourea* Aubl. (1775).
- PALICURIA** Raf. Ann. Gén. Sci. Phys. 6:86. 1830, *nom.*; Sylva Tellur. 148. 1838, *nom.*=*Palicourea* Aubl. (1775).
- ***PALOVEA** Raf. Fl. Tellur. 1:85. 1836 [1837], *nom. nov.* *Schwenkfeldia* Schreb. (1789), non *Palovea* Aubl. (1775)=*Sabicea* Aubl. (1775).
- PANETOS** Raf. Ann. Gén. Sci. Phys. 5:225. *nom.*, 227, *descr.* 1820; op. cit. 6:81. 1820, *nom.*, *nota.* (Type *Houstonia rotundifolia* Michx.)=*Houstonia* Linn.
- PATABEA** Aubl.=*Psychotria* Linn.
- **guianensis* Raf. Sylva Tellur. 149. 1838, *descr.* [*Patabea coccinea* Aubl.]. Guiana.
- PECKEYA** Raf. Ann. Gén. Sci. Phys. 6:87. 1820, *nom.*, *sphalm.*=*Pecheya* Neck. [Scop. 1777]=*Coussarea* Aubl. (1775).
- ***PEDERIA** Raf. Am. Gén. Sci. Phys. 6:86. 1820, *nom.*=*Paederia* Linn.
- PHOSANTHUS** Raf. Ann. Gén. Sci. Phys. 6:82. 1820, *nom.*=*Isertia* Schreb. (1789).
- coccinea* Raf. ex Jacks*. Ind. Kew. 2:503. 1894 (*Guettarda coccinea* Aubl.). Guiana=*Isertia coccinea* (Aubl.) Vahl.

PINCKNEYA Michx.

**bracteata* Raf. Casket 1827; 194. f. 17. 1827, *descr.*; Sat. Eve. Post 6(303):[4]. 1 f. 1827, *descr.* (*Bartramia* **bracteata* Bartr. Trav. XVIII. 1791, *nom.*; *Bigonia* **bracteata* Bartr. op. cit. 468, *nom.*, *nota.*; op. cit. 16 *descr.*, *sine nom.*; *Mussaenda* **bracteata* Raf. Casket l.c., *nom.*; Sat. Eve. Post 6(303):[4]. 1827, *nom.*). Southeastern United States=*Pinckneya pubens* Michx.

PINKNEYA Raf. Ann. Gén. Sci. Phys. 6:81. 1820, *nom.*, *sphalm.* = *Pinckneya* Michx. (1803).

PLEIMERIS Raf. Sylva Tellur. 21. 1838, *descr.*, *nom. nov.* *Thunbergia* Montin (1773), *non* Retz. (1776)=*Gardenia* Ellis (1761), *nom. conserv.* (*Warneria* Linn., 1759; *Varneria* Linn., 1759).

capensis Raf. l.c., *descr.* (*Thunbergia capensis* Linn. f.; *Gardenia thunbergia* Linn. f.). South Africa=*Gardenia thunbergia* Linn. f.

PLETHYRSIS Raf. Aut. Bot. 13. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1891, *nom.*=? *Richardia* Linn.

glauca Raf. l.c., *descr.*; Pennell, l.c., *nom.* Unaka or Iron Mountains of North Carolina.

PLEUREIA Raf. Sylva Tellur. 147. 1838, *descr.*=*Psychotria* Linn.

compressa Raf. l.c., *descr.* (*Psychotria calycina* H.B.K.). Colombia.

POSORIA Raf. Ann. Gén. Sci. Phys. 6:80. 1820, *nom. nov.* *Posoqueria* Aubl.

RUBIA Linn.

techensis Raf. Fl. Ludovic. 76. 1817, *descr.* (*Rubia* Rob. Voy. Louis. 3:453. 1807). Louisiana=*Galium* sp.

***SMIRUS** Raf. Sylva Tellur. 147. 1838, *nom.*, *sub Pleureia* Raf. Quid?

SPERMACOCE Linn.

lasiantha Raf. Fl. Ludovic. 76. 1817, *descr.* (*Crucianella* 2 Rob. Voy. Louis. 3:453. 1807). Louisiana.

**latifolia* Raf. Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.

**spinulosa* Raf. l.c., *nom.* Kentucky or Illinois.

***SPERMACON** Raf. Act. Soc. Linn. Bordeaux 6:269. 1834, *descr.*, *iter.* Merr. Proc. Am. Philos. Soc. 86:89. 1942; op. cit. 90, *nom.*=*Spermacoe* Linn.

STELMANIS Raf. Aut. Bot. 13. 1840, *descr.*, *non* *Stelmanis* Raf. (1837)=*Anistelma* Raf. op. cit. 69=*Hedyotis* Linn. (*Oldenlandia* Linn.).

**glomerata* Raf. l.c., *descr.* (*Oldenlandia glomerata* Michx.; *Hedyotis glomerata* Ell.). New Jersey to Louisiana=*Hedyotis uniflora* (Linn.) Lam. (*Oldenlandia uniflora* Linn.).

†**STELMOTIS** Raf. New Fl. N. Am. 2:21. 1836 [1837], *nom.*; op. cit. 4:101. 1836 [1838], *nom.*, *nota*=*Stelmanis* Raf. (1840)=*Anistelma* Raf. (1840)=*Hedyotis* Linn. (*Oldenlandia* Linn.).

glomerata Raf. op. cit. 4:101. 1836 [1838], *nom.* (*Oldenlandia glomerata* Michx.; *Hedyotis glomerata* Ell.). Eastern United States=*Hedyotis uniflora* (Linn.) Lam. (*Oldenlandia uniflora* Linn.).

***STENARIA** Raf. Ann. Gén. Sci. Phys. 5:226. 1820, *descr.*, *subgen.* *Houstonia* Linn. (Type *Houstonia longifolia* Gaertn.)=*Houstonia* Linn.

SULCANUX Raf. Sylva Tellur. 148. 1838, *nom. nov. provis.* (Type *Psychotria gracilis* Ruiz & Pavon)=*Geophila* D. Don (1825).

***TAPOGAMEA** Raf. Sylva Tellur. 147. 1838, *nom.*, *sphalm.*=*Tapogomea* Aubl. (1775)=*Cephaelis* Sw. (1788), *nom. conserv.*

***TARAMEA** Raf. Am. Gén. Sci. Phys. 6:68. 1820, *nom.*, *sphalm.*=*Faramaea* Aubl. (1775).

URUPARIA Raf. Sylva Tellur. 148. 1838, *descr.* (*Agylophora* Neck. 1790 [*Ourouparia* Aubl., 1775]=*Uncaria* Schreb. (1789), *nom. conserv.* (*Ourouparia* Aubl., 1775).

versicolor Raf. l.c., *descr.* ([*Ourouparia*] *guianensis* Aubl.). Guiana=*Uncaria guianensis* (Aubl.) J. F. Gmel.

***VAILLANTA** Raf. Specch. Sci. 1:87. 1814, *nom. nov.* *Valantia* Linn.=*Vaillantia* Gled. (1751).

***VANASTA** Raf. Fl. Tellur. 3:100. 1836 [1837], *nom.* in indice = seq.

VANESSA Raf. Fl. Tellur. 3:57. 1836 [1837], *descr.*=*Manettia* Mutis (1771).

cordifolia Raf. l.c., *descr.* (*Manettia cordifolia* Mart.; Hook. Bot. Mag. 59: t. 3202. 1832). Argentina.

VIVIANA Raf. Specch. Sci. 1:117. 1814, *descr.*; Précis Découv. Somiol. 1814, *nom.* (p. 4 of cover); Jour. Bot. (Desv.) 4:277

(err. 177). 1814, *nom.*; Ann. Gén. Sci. Phys. 6:81. 1820, *nom.*=*Guettarda* Linn.

domingensis Raf. l.c., *descr.* Santo Domingo=*Guettarda* sp.

XEROMPHIS Raf. Sylva Tellur. 21. 1838, *descr.*=*Randia* Linn. *retzi* Raf. l.c., *descr.* (*Gardenia dumetorum* Retz.). East Indies=*Randia dumetorum* Lam.

YANGAPA Raf. Sylva Tellur. 20. 1838, *descr.*=*Gardenia* Ellis (1761), *nom. conserv.* (*Warneria* Linn., 1759; *Varneria* Linn., 1759).

flava Raf. l.c., *descr.* (*Gardenia coronaria* Buch.-Ham.). Burma.

ZALMARIA Raf. ex Jacks*. Ind. Kew. 2:1244. 1895, *sphalm.*= seq.

ZAMARIA Raf. Ann. Gén. Sci. Phys. 6:85. 1820, *nom.* (*Rondeletia* sp.)=*Rondeletia* Linn.

CAPRIFOLIACEAE

CAPRIFOLIUM Linn.=*Lonicera* Linn.

**acutifolium* Raf. Herb. Raf. 51. 1833, *nom.* Rocky Mountains or Oregon.

dentatum Raf. Atl. Jour. 1:151. 1832, *descr.* Near Lakes Erie and Ontario=*Lonicera dioica* Linn.

**ellipticum* Raf. Herb. Raf. 59. 1833, *nom.* Ohio.

**eriense* Raf. l.c., *nom.* Near Lake Erie.

**flavum* Raf. ex Gussone, Fl. Sicul. Syn. 1:260. 1843, *nom.* in syn. Sicily=*Lonicera etrusca* Savi.

**macrophyllum* Raf. l.c., *nom.* Alleghany Mountains.

rubrum Raf. Fl. Ludovic. 78. 1817, *descr.* (*Caprifolium* 1 Rob. Voy. Louis. 3:457. 1807); New Fl. N. Am. 3:18. 1836 [1838], *nom.* Louisiana=? *Lonicera sempervirens* Linn.

†*trupestre* Raf. Herb. Raf. 59. 1833, *nom.*; New Fl. N. Am. 3:17. 1836 [1838], *nom. alt.* *Lonicera rupestris* Raf. Kentucky=? *Lonicera prolifera* (Kirchn.) Rehder.

**sinuatum* Raf. Herb. Raf. 59. 1833, *nom.* Ohio.

***CHAMERASIA** Raf. Ann. Gén. Sci. Phys. 6:85. 1820, *nom. nov.* *Chamaecerasus* Medic. (1789)=*Lonicera* Linn.

#**CYPHEOLA** Raf. New Fl. N. Am. 3:20. 1836 [1838], *descr.*, *subgen.* *Lonicera* Linn.

DIERVILLA Linn.

longifolia Raf. New Fl. N. Am. 3:21. 1836 [1838], *descr.* New York.

parvifolia Raf. op. cit. 22, *descr.* Alleghany Mountains.

DISTEGIA Raf. New Fl. N. Am. 3:20. 1836 [1838], *descr.*; Good Book 45. 1840, *nom.*=*Lonicera* Linn.

nutans Raf. op. cit. 21, *descr.* (*Xylosteon involucratum* Richards.). Hudson Bay and boreal America=*Lonicera involucrata* (Richards.) Banks (*Xylosteum involucratum* Rydb.).

#**EUNEMIUM** Raf. New Fl. N. Am. 3:21. 1836 [1838], *descr.* *subgen.* *Lonicera* Linn. (Type *Caprifolium longifolium* Sabine; Lindl. Bot. Reg. 15: t. 1232. 1829)=*Lonicera* Linn.

***JINUS** Raf. Ann. Gén. Sci. Phys. 6:87. 1820, *nom.*, *sphalm.*=*Tinus* Linn.=*Viburnum* Linn.

#**KANTEMON** Raf. New Fl. N. Am. 3:19, *nom.*, 20, *descr.* 1836 [1838], *subgen.* *Lonicera* Linn.

angustifolium Raf. l.c. 19, *nom. alt.* *Lonicera angustifolia* Raf. North America=*Lonicera sempervirens* Linn. forma minor (Ait.) Rehder.

ciliolum Raf. l.c., *nom. alt.* *Lonicera ciliosa* Poir. [*Caprifolium ciliolum* Pursh]. North America=*Lonicera ciliosa* (Pursh) Poir.

KARPATON Raf. Fl. Ludovic. 78. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 4:88. 1819, *nom.*; Ann. Gén. Sci. Phys. 6: 83. 1820, *nom.*=*Triosteum* Linn.

hastatum Raf. Fl. Ludovic. 79. 1817, *descr.* [*Anonyme* Rob. Voy. Louis. 3:457. 1807]. Louisiana.

LENTAGO Raf. Fl. Ludovic. 78. 1817, *descr.*, *subgen.* *Viburnum* Linn.; Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.*, *nota*, *gen. vel subgen.*; Ann. Gén. Sci. Phys. 5:351. 1820, *descr.*, *gen.*, *subgen. vel sect.*; op. cit. 6:87. 1820, *descr.*, *gen.*; Isis von Oken 1821, 2:979. 1821, *descr.* ut *gen.*; Alsogr. Am. 51. 1838, *descr.*, *subgen.* *Viburnum* Linn.; Good Book 49. 1840, *nom.*=*Viburnum* Linn.

LINNEA Neck.=*Linnaea* Linn.

**borealis* Raf. First Cat. Bot. Gard. Transylv. Univ. 22. 1824, *nom.*=*Linnaea borealis* Linn.

***LINNEUSIA** Raf. Med. Fl. 2:239. 1830, *nom.* [*Linnaea* Linn.].

**borealis* Raf. l.c., *nom.* [*Linnaea borealis* Linn.]. North temperate zone.

LONICERA Linn.

- acutifolia* Raf. New Fl. N. Am. 3:19. 1836 [1838], *descr.* Alleghany Mountains=? *L. dioica* Linn.
angustifolia Raf. l.c., *descr.* Florida=*L. sempervirens* Linn. forma minor (Ait.) Rehder.
dentata Raf. l.c., *descr.* Alleghany and Kiskatom Mountains =*L. dioica* Linn.
elliptica Raf. op. cit. 18, *descr.* Appalachian Mountains of Virginia and Carolina=? *L. dioica* Linn.
 var. *macrophylla* Raf. l.c., *descr.*
 minor Raf. l.c., *descr.*
eriensis Raf. l.c., *descr.* Lake Erie=? *L. hirsuta* Eaton.
ovata Raf. l.c., *descr.* Appalachian Mountains=? *L. dioica* Linn.
reticulata Raf. l.c., *descr.* Ohio, Kentucky=? seq.
rupestris Raf. op. cit. 17, *descr.* Kentucky, Illinois=? *L. prolifera* (Kirchn.) Rehder.

#**OLMA** Raf. Alsogr. Am. 47. 1838, *descr.*, subgen. *Sambucus* Linn.=*Sambucus* Linn. sect. *Olma* (Raf.) Rehder.

***PERICLYMA** Raf. Ann. Gén. Sci. Phys. 6:83. 1820, *nom. nov.* *Periclymenum* Mill.=*Lonicera* Linn.

PHENIANTHUS Raf. Ann. Gén. Sci. Phys. 6:85. 1820, *nom.*=*Lonicera* Linn.

sempervirens Raf. ex Jacks*. Ind. Kew. 2:494. 1894 (*Lonicera sempervirens* Linn.). Eastern North America.

SAMBUCUS Linn.

- alba* Raf. Alsogr. Am. 48. 1838, *descr.* Europe=*S. nigra* Linn. forma *alba* (West.) Rehder.
 **bipinnata* Raf. op. cit. 47, *descr.*, *nom. nov.* *Sambucus canadensis* Linn.
caerulea Raf. ex Jacks*. Ind. Kew. 2:796. 1895=seq.
 **cerulea* Raf. Herb. Raf. 54. 1833, *nom.*, *nota*; New Fl. N. Am. 3:95. 1836 [1838], *nom.*, *nota*; Alsogr. Am. 48. 1838, *descr.* Northwestern United States (Lewis & Clark) (*S. glauca* Nutt., 1841).
dimidiata Raf. Alsogr. Am. 49. 1838, *descr.* Canada and New York (Catskill Mountains)=*S. pubens* Michx.
 **ebuloides* Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 61. 1833, *nom.*; Alsogr. Am. 49. 1838, *descr.* Kentucky or Illinois; southern Europe.
humilis Raf. Ann. Nat. Ann. Synop. 13. 1820, *descr.*; Alsogr. Am. 48. 1838, *descr.* Ohio River in [West] Virginia.
repens Raf. Alsogr. Am. 47. 1838, *descr.* Canada to Louisiana=*S. canadensis* Linn.
rupestris Raf. op. cit. 50, *descr.* Turkey Mountains in the Alleghanies=*S. pubens* Michx.
verrucosa Raf. op. cit. 49, *descr.* Alleghany Mountains=*S. pubens* Michx.

SYMPHORIA Pers.=*Symphoricarpos* Du Hamel (1755).

alba Raf. New Fl. N. Am. 3:21. 1836 [1838], *nom.* North America=*Symphoricarpos albus* (Linn.) Blake (*S. racemosus* Michx.).

**debilis* Raf. Med. Fl. 2:266. 1830, *nom.* North America.

heterophylla Raf. New Fl. N. Am. 3:21. 1836 [1838], *descr.* "Missouri," cult. [Philadelphia] [*Symphoricarpos rivularis* Suksd.?).

rubra Raf. New Fl. N. Am. 3:21. 1836 [1838], *nom.* North America=*Symphoricarpos orbiculatus* Moench (*S. vulgaris* Michx.).

THYRSOSMA Raf. Sylva Tellur. 130. 1838, *descr.*; Alsogr. Am. 51. 1838, *descr.*=*Viburnum* Linn.

chinensis Raf. l.c., *descr.*, *nom.* (*Viburnum odoratissimum* Ker-Gawl. Bot. Reg. 6: t. 456. 1820). China.

TRIOSTEUM Linn.

connatum Raf. New Fl. N. Am. 2:35. 1836 [1837], *descr.* Alleghany Mountains=*T. perfoliatum* Linn.

hispidum Raf. op. cit. 37, *descr.* Western Kentucky. (? *T. aurantiacum* Bicknell, 1901).

levigatum Raf. l.c., *descr.* Appalachian Mountains, Georgia and Alabama; cultivated in gardens=*T. perfoliatum* Linn.

**medium* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.* Kentucky.

molle Raf. New Fl. N. Am. 2:36. 1836 [1837], *descr.* Missouri=*T. perfoliatum* Linn.

obovatum Raf. op. cit. 37, *descr.* New York to Illinois=*T. perfoliatum* Linn.

pumilum Raf. op. cit. 36, *descr.* Appalachian Mountains of Virginia=*T. angustifolium* Linn.

villosum Raf. l.c., *descr.* Maryland to New Jersey=*T. angustifolium* Linn.

VALENTIANA Raf. Specch. Sci. 1:87. 1814, *descr.* Quid?

volubilis Raf. l.c., *descr.* Malta, e Abyssinia, cult. Sicily.

VIBURNUM Linn.

ambloides Raf. Alsogr. Am. 55. 1838, *descr.* Kentucky=*V. prunifolium* Linn.

capitatum Raf. op. cit. 56. *descr.* Georgia or Florida.

†*edule* Raf. Med. Repos. III. 2:333. 1811, *nom.* ("V. opulus, Michx. Muhl."); Am. Monthly Mag. Crit. Rev. 2:265. 1818, *nom.* Eastern United States; see Fernald, *Rhodora* 43:481. 1941.

**edulum* Raf. Med. Repos. II. 5:354. 1808, *nom.* ("V. opulus Linn. var. of Mich."); Jour. Bot. (Paris) 2:174. 1809, *nom.*=*praec.*

†*ferrugineum* Raf. Herb. Raf. 57. 1833, *nom.* (*ferugineum*); Alsogr. Am. 52. 1838, *descr.*; Aut. Bot. 5. 1840, *nom.* New Jersey=? *V. lentago* Linn.

glaucom Raf. Alsogr. Am. 53. 1838, *descr.* Unaka Mountains, North Carolina.

†*heterophyllum* Raf. Herb. Raf. 57. 1833, *nom.*; Alsogr. Am. 52. 1838, *descr.*; Aut. Bot. 5. 1840, *nom.* Alleghany Mountains.

**lanceolatum* Raf. Herb. Raf. 57. 1833, *nom.*; Alsogr. Am. 56. 1838, *descr.* Illinois.

†*laurifolium* Raf. Herb. Raf. 57. 1833, *nom.*; Alsogr. Am. 52. 1838, *descr.* (*Viburnum nudum* Linn.); Aut. Bot. 5. 1840, *nom.* New Jersey to Ohio, Florida and Louisiana=*V. nudum* Linn.

lentagoides Raf. Med. Repos. II. 5:354. 1808, *nom.* ("V. lentago of Lin. Mich."); Jour. Bot. (Paris) 2:174. 1809, *nom.* (*Viburnum lentago* Linn., var.)=*V. lentago* Linn. Eastern United States.

**levigatum* Raf. Med. Fl. 2:274. 1839, *nom.*=*V. laevigatum* Ait. Eastern North America.

longifolium Raf. Alsogr. Am. 56. 1838, *descr.* (*Viburnum pyrifolium* Poir., var. *pennsylvanicum* Sm.). Alleghany Mountains, Pennsylvania to Carolina=? *V. lentago* Linn.

macrodon Raf. Atl. Jour. 1:17. 1832, *descr.* Alleghany Mountains.

membranaceum Raf. Alsogr. Am. 51. 1838, *descr.*; Aut. Bot. 5. 1840, *nom.* Georgia, Florida.

obliquatum Raf. Alsogr. Am. 54. 1838, *descr.* (*V. *ulmifolium* Donn, Hort. Cantab. ed. 4, 62. 1807, *nom.*; Muhl. Cat. 32. 1813, *nom.*). Siberia.

**oxycoccus* Raf. Med. Fl. 2:274. 1830, *nom.*; Alsogr. Am. 57. 1838, *nom.*=*V. oxycoccus* Pursh. North America.

palustre Raf. Alsogr. Am. 56. 1838, *descr.* (*V. nudum* sensu Ell.). Carolina.

pauciflorum Raf. op. cit. 58, *descr.* Labrador=*V. edule* (Michx.) Raf.

**pimina* Raf. op. cit. 57. 1838, *descr.* (*V. oxycoccus* Pursh; [*Viburnum opulus* Linn. var. *pimina* Michx.]). Canada to Ohio=*Viburnum trilobum* Marsh.

var. *subcordatum* Raf. op. cit. 58, *descr.* Alleghany Mountains of western Pennsylvania.

pinnata Raf. ex Jacks*. Ind. Kew. 2:1194. 1895, *sphalm.*=*praec.*

primina Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. 2:174. 1809, *nom.* (*Viburnum opulus* Linn. var. *pimina* Michx.). Eastern North America=*praec.*

punctatum Raf. ex DC. Prodr. 4:326. 1830, *nom.* in syn. sub *Viburnum cassinoides* Linn.; Alsogr. Am. 53. 1838, *nom.*; Aut. Bot. 5. 1840, *nom.* sub *Viburnum squamatum* Muhl. Eastern North America.

repandum Raf. Alsogr. Am. 53. 1838, *descr.* Virginia.

**resinosum* Raf. Herb. Raf. 58. 1833, *nom.* "pine barrens" [New Jersey].

retusum Raf. Alsogr. Am. 53. 1838, *descr.*; Aut. Bot. 5. 1840, *nom.* Alabama.

rotundifolium Raf. op. cit. 54, *descr.*; Herb. Raf. 57. 1833, *nom.* Alleghany Mountains.

rufulum Raf. op. cit. 56, *descr.* Alabama. (*V. rufotomentosum* Small). Virginia to Illinois and Kansas south to Florida and Texas.

tomentosum Raf. Med. Repos. II. 5:354. 1808, *nom.* (*V. dentatum* Linn. var. *semitomentosum* Michx.); Jour. Bot. (Paris) 2:174. 1809, *nom.*; non Lam. (1778), nec. Thunb. (1784). Eastern North America=? *V. scabrellum* Chapm.

villosum Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:228. 1809, *descr.*; Gerard, Bull. Torr. Bot. Club 12:37. 1885, *nom.*, non Sw. (1788). Pennsylvania=*V. pubescens* Pursh, fide Raf. Alsogr. Am. 57. 1838 (*V. rafinesquianum* Schult.).

XYLOSTEON Adans.=*Lonicera* Linn.

**canescens* Raf. Am. Monthly Mag. Crit. Rev. 1:440. 1817, nom. [*Lonicera canescens* Schousb.]. North Africa.

puniceum Raf. op. cit. 21, descr. (*Symphorea punicea* Loud.; *Lonicera punicea* Sims; Hook. Bot. Mag. 51: t. 2469. 1824). "Canada" [Siberia]=*Symphoricarpos puniceus* (Sims) Loud.=*Lonicera tatarica* Linn. forma sibirica (Pers.) Rehder.

**siculum* Raf. Am. Monthly Mag. Crit. Rev. 1:440. 1817, descr.; Fl. Ludovic. 169. 1817, nom. Sicily.

**villosum* Raf. Chloris Aetn. 10. 1815, nom. (*sphalm.* "*Xylor-teum*"). Sicily.

VALERIANACEAE

***AMBLOPHUS** Raf. Aut. Bot. 89. 1840, descr., sub *Valeriana gracilis* Raf. (Type *Valeriana scandens* Loeff.)=*Valeriana* Linn.

***DIOLOTHECA** Raf. Ann. Gén. Sci. Phys. 6:77. 1820, nom., *sphalm.*=seq.

DIOTOTHECA Raf. Fl. Ludovic. 74. 1817, descr.; Am. Monthly Mag. Crit. Rev. 4:188. 1819, nom.; Fl. Tellur. 4:96. 1836 [1838], descr., non Vaillant fide Raf. Ex descr.=? *Valerianella* Mill. (1754).

repens Raf. op. cit. 75, descr. (*Scabiosa* Rob. Voy. Louis. 3: 449. 1807); Fl. Tellur. l.c., descr. Louisiana.

FEDIA Gaertn. (1791)=*Valerianella* Mill. (1754).

brevifolia Raf. Atl. Jour. 1:177. 1833, descr.; Herb. Raf. 22. 1833, descr. Texas.

ciliolata Raf. New Fl. N. Am. 4:68. 1836 [1838], descr.; Aut. Bot. 88. 1840, nom. Kentucky, Illinois.

var. *acuta* Raf. New Fl. l.c., descr.

dentata Raf. op. cit. 69, descr.

ternifolia Raf. op. cit. 68, descr.; Aut. Bot. 88. 1840, nom. Kentucky.

hemiodos Raf. op. cit. 68, descr., l.c., nom. Arkansas.

ligulata Raf. l.c., descr., nom. Arkansas, Louisiana.

FUISA Raf. Aut. Bot. 88. 1840, descr.; Pennell Bull. Torr. Bot. Club 48:94. 1921, nom.=*Patrinia* Juss (1807), nom. conserv. (*Fedia* Adans., 1763; *Moufetta* Neck., 1790).

rupestris Raf. l.c., nom. (*Valeriana rupestris* Pallas; *V. sibirica* Linn.); Pennell, l.c., nom. Siberia.

GYTONANTHUS Raf. Ann. Gén. Sci. Phys. 6:88. 1820, nom. (Type *Valeriana sibirica* Linn.)=*Patrinia* Juss (1807), nom. conserv. (*Fedia* Adans., 1763; *Moufetta* Neck., 1790).

HEMEOTRIA Raf. Ann. Gén. Sci. Phys. 6:88. 1820, nom. (Type *Valeriana chaerophylla* Pers.)=*Astrephia* Duf. (1811).

KENTRANTHUS Neck. (1790)=*Centranthus* DC. (1805).

**ruber* Raf. Aut. Bot. 88. 1840, nom. (*Valeriana rubra* Linn.; *Centranthera ruber* DC.; *Kentranthus ruber* Druce, 1897). Europe, Asia, Africa.

MITROPHORA Neck. (1790)=*Fedia* Gaertn. (1791), non Adans. (1763), nom. conserv. (*Mitrophora* Neck., 1790).

cornucopia Raf. Chloris Aetn. 5. 1815, nom. (*Valeriana cornucopiae* Linn.); Aut. Bot. 88. 1840, descr. Sicily, Armenia=*Fedia cornucopiae* (Linn.) Gaertn.

MONASTES Raf. Aut. Bot. 88. 1840, nom. alt. Rittera Raf.; Pennell, Bull. Torr. Bot. Club 48:94. 1921, nom.=*Centranthus* DC. (1805) (*Kentranthus* Neck., 1790).

ODONTOCARPA Neck. (1790)=*Valerianella* Mill. (1754).

**coronata* Raf. Aut. Bot. 88. 1840, nom. (*Fedia coronata* Vahl; *Valerianella coronata* DC.). Lusitania.

**dentata* Raf. l.c., nom. (*Fedia dentata* Sieber; *Valerianella dentata* Pollich). England.

**olitoria* Raf. l.c., nom. (*Fedia olitoria* Vahl; *Valeriana locustia* Linn.). Europe.

**scabioseae* Raf. Spech. Sci. 2:172. 1814, descr. Sicily.

***ONCOLON** Raf. Aut. Bot. 89. 1840, descr. sub *Valeriana gracilis* Raf. (Type *Valeriana echinata* Linn.)=*Valerianella* Mill. (1754).

***ONCOSINA** Raf. Aut. Bot. 89. 1840, descr. sub *Valeriana gracilis* Raf. (Type *Valeriana vesicaria* Mill.)=*Valerianella* Mill. (1754).

RITTERA Raf. Aut. Bot. 88. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:94. 1921, nom., non Schreber (1789)=*Centranthus* DC. (1805) (*Kentranthus* Neck., 1790).

calcitrapa Raf. l.c., nom. (*Valeriana calcitrapa* Linn.); Pennell, l.c., nom. Europe.

SALIUNCA Raf. Aut. Bot. 87. 1840, descr.; Pennell, Bull. Torr. Bot. Club 48:93. 1921, nom.=*Valerianella* Mill. (1754).

plantaginea Raf. l.c., descr.; Pennell, l.c., nom. Carpathian or Caucasus Mountains.

VALERIANA Linn.

**cherophylla* Raf. Ann. Gén. Sci. Phys. 6:88. 1820, nom.=*Valeriana chaerophylla* Pers.=*Astrephia chaerophylloides* (Sm.) DC. Peru.

**gracilis* Raf. Aut. Bot. 89. 1840, descr. (*V. alpina* Adam.). Siberia=*Valeriana alpestris* Stev.

DIPSACEAE

ASTROCEPHALUS Raf. Fl. Tellur. 4:94. 1836 [1838]=*Asterocephalus* (Vail.) Adans.=*Scabiosa* Linn.

ciliata Raf. ex Jacks*. Ind. Kew. 1:240. 1893 (*Scabiosa ciliata* Spreng.). Greece.

integrifolia Raf. ex Jacks*. l.c. (*Scabiosa integrifolia* Linn.). Greece, Asia Minor.

**pumila* Raf. Aut. Bot. 90. 1840, descr. Sicily.

rigida Raf. ex Jacks*. Ind. Kew. 1:240. 1893 (*Scabiosa rigida* Linn.). South Africa=*Cephalaria rigida* (Linn.) Roem. & Schult.

sylvatica Raf. ex Jacks*. l.c. (*Scabiosa sylvatica* Linn.). Europe, Caucasus.

tatarica Raf. ex Jacks*. l.c. (*Scabiosa tatarica* Linn.)=*Cephalaria tatarica* (Linn.) Schrad. Northern Asia.

uralensis Raf. ex Jacks*. l.c. (*Scabiosa uralensis* Willd.)=*Cephalaria tatarica* (Linn.) Schrad. Eurasia.

CEPALARIA Raf. ex Jacks*. Ind. Kew. 1:480. 1893, *sphalm.*=*Cephalaria* Schrad.

#**CODOSTELMA** Raf. Fl. Tellur. 4:95. 1836 [1838], descr., subgen. *Lomelosia* Raf. (Type *Lomelosia simplex* Raf. [*Scabiosa simplex* Desf.] = *Scabiosa* Linn.

DIPSACUS Linn.

†*cuneifolius* Raf. Herb. Raf. 68. 1833, nom.; New Fl. N. Am. 2:19. 1836 [1837], descr. Alleghany Mountains and Kentucky=D. *sylvestris* Huds.

EUPTILIA Raf. Fl. Tellur. 4:95. 1836 [1838], descr.=*Pterocephalus* Adans. (1763).

cretica Raf. l.c., nom. (*Scabiosa papposa* Linn.; *S. involu-crata* Sibth. & Sm.). Crete=*Pterocephalus papposus* (Sibth. & Sm.) Coult.

GONOKEROS Raf. Fl. Tellur. 4:96. 1836 [1838], descr.=*Cephalaria* Schrad. (1814).

hungaricus Raf. l.c., nom. (*Scabiosa corniculata* Waldenst. & Kit.). Hungary.

†**LEUCOPSORA** Raf. New Fl. N. Am. 1:26. 1836, nom.; Fl. Tellur. 4:95. 1836 [1838], descr.=*Cephalaria* Schrad. (1814).

leucantha Raf. ex Jacks*. Ind. Kew. 2:73. 1894 (*Scabiosa leucantha* Linn.). Southwestern Europe=*Cephalaria leucantha* (Linn.) Schrad.

LOMELOSIA Raf. Fl. Tellur. 4:95. 1836 [1838], descr.=*Scabiosa* Linn.

coronopifolia Raf. l.c., nom. (*Scabiosa coronopifolia* Sibth. & Sm.). Mediterranean region.

palestina Raf. l.c., nom. [*Scabiosa palaestina* Linn.]. Asia Minor.

simplex Raf. l.c., nom. [*Scabiosa simplex* Desf.]. North Africa.

stellata Raf. l.c., nom. (*Scabiosa stellata* Linn.). Mediterranean region.

PENTENA Raf. Sylva Tellur. 4:96. 1836 [1838], descr.=*Scabiosa* Linn.

**banatica* Raf. Aut. Bot. 90. 1840, nom. (*Scabiosa banatica* Waldst. & Kit.). Hungary.

ochroleuca Raf. Fl. Tellur. 4:96. 1836 [1838], descr. (*Scabiosa ochroleuca* Linn.); Aut. Bot. 90. 1840, nom. Europe.

uniseta Raf. l.c., descr. (*Scabiosa uniseta* Savi, Fl. Pisan. 1: 167. t. 2. 1798). Mediterranean region.

#**PENTEXIS** Raf. Fl. Tellur. 4:95. 1836 [1838], descr., subgen. *Tereiphas* Raf. (Type *Scabiosa rutaefolia* Vahl)=*Scabiosa* Linn.

***PLESIOPSORA** Raf. Fl. Tellur. 4:95. 1836 [1838], descr.=*Scabiosa* Linn.

**africana* Raf. l.c., nom. [*Scabiosa africana* Linn.]. South Africa.

**monspeliaca* Raf. l.c., nom. [*Scabiosa monspeliaca* Georgi]. Tauria.

**sicula* Raf. l.c., nom. [*Scabiosa sicula* Linn.]. Southern Europe.

- PTEROCEPHALUS** Vaill.=*Scabiosa* Linn.
 incanus Raf. Fl. Tellur. 4:94. 1836 [1838], *nom.* (*Scabiosa pteroccephala* Linn.). Greece.
 **plumosus* Raf. l.c., *nom.* (*Scabiosa plumosa* Sibth. & Sm.; *Knautia plumosa* Linn.). Greece, Asia Minor.
- SCABIOSA** Linn.
 angulata Raf. Car. Nuov. Gen. Sp. Sicil. 81. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *nom.*; Chloris Aetn. 11. 1815, *nom.* Sicily.
- SIXALIX** Raf. Fl. Tellur. 4:95. 1836 [1838], *descr.*=*Scabiosa* Linn.
 daucoides Raf. op. cit. 96, *nom.* (*Scabiosa daucoides* Desf.). Algeria.
- SUCCISA** Neck.; Raf. Fl. Tellur. 4:94. 1836 [1838], *descr.*=*Scabiosa* Linn.
 arvensis Raf. l.c., *nom.*; Aut. Bot. 90. 1840, *nom.* (*Scabiosa arvensis* Linn.). Europe.
 **bidentata* Raf. Aut. Bot. 90. 1840, *descr.* Spain.
 ciliata Raf. Fl. Tellur. l.c., *nom.* (*Scabiosa ciliata* Spreng.). Greece.
 dichotoma Raf. l.c., *nom.* (*Scabiosa dichotoma* Ucria). Iberian Peninsula, Sicily.
 **integrifolia* Raf. Aut. Bot. 89. 1840, *nom.* (*Scabiosa integrifolia* Roth). Switzerland, Bavaria=*S. arvensis* Linn.
 **lancifolia* Raf. op. cit. 90, *descr.* (*Scabiosa australis* Wulfen.). Styria, Istria.
- TEREIPHAS** Raf. Fl. Tellur. 4:95. 1836 [1838], *descr.*=*Scabiosa* Linn.
 rutefolia Raf. ex Jacks*. Ind. Kew. 2:1046. 1895 (*Scabiosa rutaefolia* Vahl). Mediterranean region.
 urceolata Raf. Fl. Tellur., l.c., *nom.* (*Scabiosa urceolata* Desf.). Mediterranean region=*S. rutaefolia* Vahl.
- THLASIDIA** Raf. Fl. Tellur. 4:96. 1836 [1838], *descr.*=*Scabiosa* Linn.
 bidens Raf. l.c., *nom.* (*Scabiosa bidens* Sibth. & Sm.). Asia Minor.
- TREMASTELMA** Raf. Fl. Tellur. 4:96. 1836 [1838], *descr.*=*Scabiosa* Linn.
 brachiata Raf. l.c., *descr.* (*Scabiosa brachiata* Sibth. & Sm.; *Knautia palestina* Linn.). Asia Minor=*Scabiosa palaestina* (Linn.) D. Dietr.
 sibthorpi Raf. l.c., *descr.* (*Scabiosa sibthorpiana* Sibth. & Sm.). Cyprus.
- XETOLA** Raf. Fl. Tellur. 4:95. 1836 [1838], *descr.*=*Cephalaria* Schrad. (1814).
 transylvanica Raf. l.c., *nom.* (*Scabiosa transylvanica* Linn.). Europe=*Cephalaria transylvanica* (Linn.) Schrad.
 trenta Raf. l.c., *nom.* (*Scabiosa trenta* Haq.; *Scabiosa haquetii* Lam.). Europe=*Cephalaria transylvanica* (Linn.) Schrad.
- CUCURBITACEAE**
- ARKEZOSTIS** Raf. New Fl. N. Am. 4:100. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=*Cayaponia* Silva Manso (1836), *nom. conserv.* (*Arkezostis* Raf., 1836 [1838]).
 quinqueloba Raf. New Fl. l.c., *descr.*; Aut. Bot. 16. 1840, *nom.* (*Boykinia trisporea* Nutt.). Alabama, Georgia, Florida=*Cayaponia boykinii* (Torr. & Gray) Cogn.
- ***BOYKINIA** Nutt. ex Raf. New Fl. N. Am. 4:100. 1836 [1838], *nom.*, non *Boykinia* Nutt. (1834)=*praec.*
 †*trisporea* Wray & Nutt. ex Raf. l.c., *nom.* sub *Arkezostis* Raf.; Aut. Bot. 16. 1840, *nom.* sub *Arkezostis* Raf. North America=*Boykinia trisporea* Nutt. ex Arn. Hook. Jour. Bot. 3:276. 1840, *nom.*=*praec.*
- MELOTHRIA** Linn.
 **alba* Raf. Western Minerva 42. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900. Missouri.
 edulis Raf. New Fl. N. Am. 4:15. 1836 [1838], *descr. nom. alt.* *Melothria pendula* Linn. West Indies.
 nigra Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.*; Western Minerva 42. 1821, *nom.*, iter. Fox, Science II. 12:213. 1900; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Med. Fl. 2:242. 1830, *nom.*, *nota.*; Herb. Raf. 62. 1833, *nom.*; Act. Soc. Linn. Bordeaux 6:267. 1834, *nom.*, *nota.*; New Fl. N. Am. 4:14. 1836 [1838], *descr.* Kentucky, Tennessee, Carolina=*M. pendula* Linn.
 punctata Raf. New Fl. N. Am. 4:15. 1836 [1838], *descr.* Louisiana=*M. pendula* Linn.
 repanda Raf. op. cit. 14, *descr.* Arkansas=*M. pendula* Linn.
 **sessilis* Raf. op. cit. 101, *nom.* sub *Arkezostis quinqueloba* Raf. Georgia, Florida.

- MICRAMPELIS** Raf. Med. Repos. II. 5:350. 1808, *descr.*; Jour. Bot. (Paris) 2:167. 1809, *descr.*=*Echinocystis* Torr. & Gray (1840), *nom. conserv.* (*Micrampelis* Raf., 1808).
 echinata Raf. Ilcc., *descr.*; A. Gray, Am. Jour. Sci. 40:226. 1841, *nom.* Pennsylvania=*Echinocystis lobata* (Michx.) Torr. & Gray.
- NEUROSPERMA** Raf. Am. Monthly Mag. Crit. Rev. 4:207. 1819, *nom.*=*seq.*
- NEVROSPERMA** Raf. Am. Monthly Mag. Crit. Rev. 4:40. 1818, *descr.*; Jour. Phys. Chim. Hist. Nat. 89:101. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 240. 1820, *descr.*; Spreng. Neue Entdeck. 1:144. 1820, *descr.*=*Momordica* Linn.
 **balsamina* Raf. Med. Fl. 2:245. 1830, *nom.* (*Momordica balsamina* Linn.).
 cuspidata Raf. Am. Monthly Mag. Jour. Phys., Isis, et Neue Entdeck. Ilcc., *descr.*; Act. Soc. Linn. Bordeaux 6:267. 1834, *nom.*, *nota.* Louisiana=*Momordica balsamina* Linn.
- OZODYCUS** Raf. Atl. Jour. 1:145. 1832, *descr.*=*Cucurbita* Linn.
 perennis Raf. l.c., *nom.* (*Cucumis perennis* E. James). Rocky Mountains=*Cucurbita foetidissima* H.B.K.
- SICYOS** Linn.
 acuta Raf. Fl. Ludovic. 113. 1817, *descr.* (*Cucurbitaceae* Rob. Voy. Louis. 3:518. 1807). Louisiana=*Sicyos angulata* Linn.

CAMPANULACEAE

- BENAUREA** Raf. Fl. Tellur. 2:77. 1836 [1837], *descr.*=*Muschia* Dum. (1823).
 sempervirens Raf. op. cit. 78, *descr.* (*Campanula aurea* Linn.). Madeira=*Muschia aurea* (Linn.) Dum.
- ***BLEPHEURIA** Raf. Fl. Tellur. 2:80. 1836 [1837], *nom.* sub *Pentrophis* Raf.=*Campanula* Linn.
- BOLELIA** Raf. Atl. Jour. 1:120. 1832, *nom. nov.* *Clintonia* Dougl. ex Lindl. (1829), non Raf. (1818); Herb. Raf. 48. 1833, *nom.* (*Clintonia* Dougl.)=Downingia Torr. (1857), *nom. conserv.* (*Bolelia* Raf., 1832; *Gynampsis* Raf., 1833, 1837; *Wittea* Kunth, 1850).
 **flexuosa* Raf. Herb. Raf. l.c., *nom. alt.* *Gynampsis flexuosa* Raf. [*Clintonia elegans* Dougl. ex Lindl.]. Western North America=Downingia elegans (Dougl.) Torr.
- CAMPANULA** Linn.
 angulata Raf. Fl. Ludovic. 55. 1817, *descr.* (*Campanula* Rob. Voy. Louis. 3:422. 1807). Louisiana=? *Specularia perfoliata* Linn.
 **puloides* Raf. Herb. Raf. 51. 1833, *nom.* Rocky Mountains or Oregon.
- CODIPHUS** Raf. Fl. Tellur. 2:77. 1836 [1837], *descr.*=*Prismatocarpus* L'Hérit. (1788).
 nitidus Raf. l.c., *descr.* (*Prismatocarpus nitidus* L'Hérit. Sert. Angl. 2. t. 3. 1788; *Campanula prismatocarpa* Ait.; Hook. Bot. Mag. 54: t. 2733. 1827). South Africa.
- CONCILIVM** Raf. Fl. Tellur. 2:78. 1836 [1837], *descr.*=*Lightfootia* L'Hérit. (1788).
 peduncular Raf. l.c., *descr.* (*Campanula fruticosa* Linn.). South Africa=*Lightfootia fruticosa* (Linn.) Druce (*L. subulata* L'Hérit.).
- DECAPRISMA** Raf. Fl. Tellur. 2:78. 1836 [1837], *descr.*=*Campanula* Linn.
 cespitosa Raf. l.c., *descr.* (*Campanula caespitosa* Scop. Fl. Carniol. ed. 2, 1:143. t. 4. 1772). Southern Europe.
- †**GYNAMPISIS** Raf. Herb. Raf. 48, 52. 1833, *nom. nov.* *Clintonia* Dougl. ex Lindl. (1829), non Raf. (1818); Fl. Tellur. 3:5. 1836 [1837], *nom.*; Aut. Bot. 14, 58. 1840, *nom.*=Downingia Torr. (1857), *nom. conserv.* (*Bolelia* Raf., 1832; *Gynampsis* Raf., 1833, 1837; *Wittea* Kunth, 1850).
 **flexuosa* Raf. Herb. Raf. Ilcc.; Aut. Bot. 14, *nom.* (*Clintonia elegans* Dougl. ex Lindl.). Oregon=Downingia elegans (Dougl.) Torr.
- HECALE** Raf. Fl. Tellur. 2:79. 1836 [1837], *descr.*=*Wahlenbergia* Schrad. (1814), *nom. conserv.* (*Cervicina* Del., 1813).
 lobelioides Raf. l.c., *descr.* (*Campanula lobelioides* Linn. f.). Madeira=*Wahlenbergia lobelioides* (Linn. f.) Link (*W. pendula* Schrad.).
- IREON** Scop.=*Prismatocarpus* L'Hérit. (1788).
 **ciliatum* Raf. Sylva Tellur. 138. 1838, *descr.* South Africa.
- ***LIFUTIA** Raf. Fl. Tellur. 1:86, 92. 1836 [1837], *nom. nov.* *Lightfootia* L'Hérit. (1788).
- ***LIGHTFOOTIA** Raf. Fl. Tellur. 1:92. 1836 [1837], *nom.*, *sphalm.*=*Lightfootia* L'Hérit. (1788).

LOBELIA Linn.

- **amena* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* = *L. amoena* Michx. Southeastern United States.
cladlomesa Raf. New Fl. N. Am. 2:17. 1836 [1837], *descr.* Alabama.
falcata Raf. New Fl. N. Am. 2:18. 1836 [1837], *descr.* Lakes Erie and Ontario = *L. kalmii* Linn.
fistulosa Raf. l.c., *descr.*, non Vell. (1827). Alabama.
†*incurva* Raf. Herb. Raf. 79. 1833, *nom.*; New Fl. N. Am. 2:18. 1836 [1837], *descr.* Florida.
inflata Linn. Eastern North America.
var. *albiflora* Raf. Med. Fl. 2:23. 1830, *nom.*; Sat. Eve. Post 10(541):[4], 1831; Casket 1832:42. 1832, *nom.*
angustifolia Raf. l.c., *nom.*
elator Raf. l.c., *nom.*
simplex Raf. l.c., *nom.*
microphylla Raf. Atl. Jour. 1:147. 1832, *descr.* Florida, Louisiana.
†*nivea* Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 61. 1833, *nom.* Kentucky.
nudicaulis Raf. Atl. Jour. 1:147. 1832, *descr.*, non Lam. (1791). Florida.
†*paniculata* Raf. Herb. Raf. 66. 1833, *nom.*; New Fl. N. Am. 2:18. 1836 [1837], *descr.*, non Linn. (1753). Alleghany Mountains.
parvifolia Raf. op. cit. 52, *nom.*; New Fl. l.c., *descr.*, non Berg. (1767), nec R. Br. (1810). Appalachian Mountains.
**procumbens* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
**sparsiflora* Raf. Herb. Raf. 68, *nom.* Alleghany Mountains.
texensis Raf. Atl. Jour. 1:176. 1833, *descr.*; Herb. Raf. 20. 1833, *descr.* Texas = *L. cardinalis* Linn. subsp. *graminea* (Lam.) McVaugh.
LOREIA Raf. Fl. Tellur. 3:82. 1836 [1837], *descr.* = *Campanula* Linn.
baldensis Raf. l.c., *descr.* (*Campanula baldensis* Balb.; *C. lorei* Pollini; Sims Bot. Mag. 52: t. 2581. 1825). Europe
MINDIUM Adans.; Raf. Fl. Tellur. 2:78. 1836 [1837], *descr.* = *Canarina* Linn.
canariense Raf. op. cit. 79, *descr.* (*Campanula canariensis* Linn.; *Canarina campanula* Lam.). Canary Islands = *Canarina canariensis* (Linn.) O. Kuntze.
***PALAENO** Raf. Fl. Tellur. 2:80. 1836 [1837], *nom.* = *Campanula* Linn.
PENTROPIS Raf. Fl. Tellur. 2:80. 1836 [1837], *descr.* = *Campanula* Linn.
saxatilis Raf. l.c., *descr.* (*Campanula saxatilis* Linn.). Crete.
PETALOSTIMA Raf. Fl. Tellur. 2:79. 1836 [1837], *descr.* = *Wahlenbergia* Schrad. (1814), *nom. conserv.* (*Cervicina* Del., 1813).
capensis Raf. l.c., *descr.* (*Campanula capensis* Linn.; Sims Bot. Mag. 20: t. 782. 1804). South Africa = *Wahlenbergia capensis* (Linn.) A. DC.
PILOREA Raf. Fl. Tellur. 2:80. 1836 [1837], *descr.* = *Wahlenbergia* Schrad. (1814), *nom. conserv.* (*Cervicina* Del., 1813).
graminifolia Raf. l.c., *descr.* (*Campanula graminifolia* Linn.). Italy, Sicily = *Wahlenbergia graminifolia* (Linn.) A. DC.
***PLEURIMA** Raf. Fl. Tellur. 2:80. 1836 [1837], *nom.* = *Campanula* Linn.
***PRISMOCARPA** Raf. Fl. Tellur. 2:80. 1836 [1837], *nom.* = *Prismatocarpus* L'Hérit.
#**SIPHILARIA** Raf. Am. Monthly Mag. Crit. Rev. 4:194. 1819, *nom.*, *nota*, subgen. *Lobelia* Linn. (Type *Lobelia siphilitica* Linn.) = *Lobelia* Linn.
***STEPHALEA** Raf. Fl. Tellur. 2:80. 1836 [1837], *nom.* = *Campanula* Linn.
TRIODALLUS Raf. ex DC. Prodr. 7:489. 1839, *nom.* in syn. sub. *Specularia* (Heist.) DC.; Nutt. Trans. Am. Philos. Soc. II. 8:255. 1843, *nom.* in syn. = seq.
**rupestris* Raf. ex DC. op. cit. 491, sub *Specularia perfoliata* (Linn.) A. DC. = *T. perfoliata* (Linn.) Nieuwl. = *Specularia perfoliata* (Linn.) A. DC.
TRIODANIS Raf. New Fl. N. Am. 4:67. 1836 [1838], *descr.* = *Dysmicodon* Nutt. (1843) = *Specularia* (Heist.) DC. (1830); see McVaugh, Wrightia 1:13-52. 1945, and Fernald, Rhodora 48:209-214. 1946.
rupestris Raf. l.c., *descr.*; op. cit. 108, *nom. nota*; Aut. Bot. 16. 1840, *nom.* Maryland = *Specularia perfoliata* (Linn.) A. DC. (*Triodanis perfoliata* Nieuwl.).

scabra Raf. New Fl. l.c., *descr.*; Aut. Bot. l.c., *nom.* Tennessee and Arkansas = ? *Triodanis leptocarpa* Nieuwl. = *Specularia leptocarpa* (Nutt.) A. Gray.

GOODENIACEAE**GOODENIA** Sm.

- **levigata* Raf. First Cat. Bot. Gard. Transylv. Univ. 21. 1824, *nom.* = *G. laevigata* Curt.
SCEVOLA Raf. Sylva Tellur. 126. 1838, *nom.* = *Scaevola* Linn. (1771), *nom. conserv.* (*Lobelia* Adans., 1763, non Linn., 1753).

STYLIDIACEAE

- ***PHYLLACNE** Raf. Fl. Tellur. 1:53. 1836 [1837], *nom.* = *Phyllachne* J. R. & G. Forst. (1776).

COMPOSITAE**ACHILLEA** Linn.

- gracilis* Raf. Atl. Jour. 1:177. 1833, *descr.*; Herb. Raf. 22. 1833, *descr.*; New Fl. N. Am. 1:50. 1836, *descr.* Arkansas, Texas.
millefolium Linn.; Raf. New Fl. N. Am. l.c., *nom.*, *nota*.
var. *carnea* Raf. l.c., *descr.*
pumila Raf. l.c., *descr.*
rosea Raf. l.c., *descr.*
tenuifolia Raf. l.c., *descr.*
occidentalis Raf. ex DC. Prodr. 6:24. 1827, *nom.* in syn. (*A. millefolium* Linn. var. *occidentalis* DC. l.c.); Rydb. N. Am. Fl. 34:224. 1916 (*A. setacea* Schwein. (1824), non Waldst. & Kit. (1802). New England to Colorado and Florida.
sicula Raf. Précis Découv. Somiol. 40. 1814, *descr.*; Jour. Bot. (Desv.) 4:271. 1814, *descr.*; *Chloris* Aetn. 11. 1815, *nom.* Sicily.
ACMELLA Richard (1807) = *Spilanthes* Jacq. (1760).
**alternifolia* Baldw. ex Raf. New Fl. N. Am. 4:70. 1836 [1838] *nom.* in syn. sub *Aimorra acuminata* Raf. Florida.
flavicaulis Raf. op. cit. 1:52. 1836, *descr.* Cumberland Mountains, eastern Kentucky = *Heliopsis helianthoides* (Linn.) Sweet.
**lanceolata* Raf. l.c., *descr.* Cumberland Mountains.
nudicaulis Raf. l.c., *descr.* Cumberland Mountains.
nuttalliana Raf. l.c., *descr.* (*Acmella occidentalis* Nutt.). Louisiana = *Spilanthes americana* (Mutis) Hieron. var. *repens* (Walt.) A. H. Moore (*Spilanthes repens* Michx.).
parvifolia Raf. l.c., *descr.* Cumberland Mountains.
ACTARTIFE Raf. Aut. Bot. 20. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:92. 1921, *nom.* (Type *Boltonia asteroides* L'Hérit.) = *Boltonia* L'Hérit. (1788).
**angustifolia* Raf. op. cit. 21, *descr.* (*Boltonia glastifolia* sensu Nutt.). Delaware = *Boltonia asteroides* (Linn.) L'Hérit.
cuneifolia Raf. op. cit. 20, *descr.*; Pennell, l.c., *nom.* Florida = *Boltonia asteroides* (Linn.) L'Hérit.
***ACTICARNOPUS** Raf. New Fl. N. Am. 2:45. 1836 [1837], *nom.* sub *Diplostelma* Raf., *sphalm.* = *Actinocarpus* Raf. fide Raf. op. cit. 95; 4:107. 1836 [1838] = *Chaetanthera* Nutt. (1834), non Ruiz & Pavon (1794), = *Diplostelma* Raf. (1837) = *Chaetopappa* DC. (1836).
ACTIMERIS Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom. nov.* *Actinomeris* Nutt.; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* (*Actinomeris* Nutt.); New Fl. N. Am. 1:60. 1836, *nom.*, *nota* (*Actinomeris* Nutt.) = *Actinomeris* Nutt. (1818), *nom. conserv.* (*Ridan* Adans., 1763).
**alata* Raf. New Fl. N. Am. 1:61. 1836, *nom.* (*Actinomeris alata* Nutt.). Mexico = *Verbesina occidentalis* Walt.
**elliotti* Raf. l.c., *descr.* (*Actinomeris helianthoides* sensu Ell.). Georgia, Alabama = seq.
**helianthoides* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; New Fl. N. Am. l.c., *descr.* [*Actinomeris helianthoides* Nutt.]. Ohio to Louisiana = *Verbesina helianthoides* Michx. (*Pterophyton helianthoides* Alexander).
**latifolia* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
**squarrosa* Raf. New Fl. N. Am. 1:61. 1836, *descr.* (*Actinomeris squarrosa* Nutt.; *Coreopsis alternifolia* Linn.). Kentucky to Florida = *Actinomeris alternifolia* (Linn.) DC. (*Ridan alternifolia* Britton).

ACTIMERIS (*continued*).var. *pauciflora* Raf. l.c., *descr.**procera* Raf. l.c., *descr.* (*Coreopsis procera* Ait.) = *Actinomeris alternifolia* (Linn.) DC.serrulata Raf. l.c., *descr.****ACTINOCARPUS** Raf. New Fl. N. Am. 2:95. 1836 [1837] *nom.*; op. cit. 4:107. 1836 [1838], *nom.*, non R. Br. (1810) = *Chaetanthera* Nutt. (1834), non Ruiz & Pavon (1794) = *Diplostelma* Raf. (1837) = *Chaetopappa* DC. (1836).**ACTINOMERIS** Nutt. (1818), *nom. conserv.* (Ridan Adans., 1763).*elliotti* Raf. ex Jacks*. Ind. Kew. 1:35. 1893 (*Actinomeris elliotti* Raf.; *Actinopteris helianthoides* sensu Ell.). Georgia, Alabama = *Verbesina helianthoides* Michx. (*Pterophyton helianthoides* Alexander).**ACTIPSIS** Raf. Fl. Tellur. 2:43. 1836 [1837], *descr.* = *Solidago* Linn.*glomerata* Raf. l.c., *descr.* (*Solidago glomerata* Michx.). North America.*squamosa* Raf. l.c., *descr.* [*Solidago squamosa* Muhl.]. North America.**ACTISPERMUM** Raf. New Fl. N. Am. 1:61. 1836, *nom. nov.* *Actinospermum* Ell. (1824) = *Balduina* Nutt. (1818) [*Baldwinia* auct.], non *Baldwinia* Raf. (1818), *nom. conserv.* (*Mnesitron* Raf., 1817; *Endorima* Raf., 1819).**multiflorum* Raf. op. cit. 62, *descr.* [*Actinospermum multiflorum* Ell.; *Balduina multiflora* Nutt.]. Southeastern United States = *Balduina angustifolia* (Pursh) Robinson.**ADVENTINA** Raf. New Fl. N. Am. 1:67. 1836, *descr.*; Good. Book 44. 1840, *nom.* = *Galinsoga* Ruiz & Pavon (1794).*ciliata* Raf. l.c., *descr.* Philadelphia (Bartram's Garden) = *Galinsoga ciliata* (Raf.) Blake, *Rhodora* 24:35. 1922 (*G. aristulata* Bicknell, 1916).*parviflora* Raf. l.c., *descr.* Philadelphia (Bartram's Garden) "Adventitious . . . near . . . Philadelphia. Probably a Florida plant" = *Galinsoga parviflora* Cav.**AGATHYRSUS** Raf. ex Jacks*. Ind. Kew. 1:55. 1893, *sphalm.* = *Agathyrus* D. Don = *Lactuca* Linn.**AGLOTOMA** Raf. Fl. Tellur. 2:44. 1836 [1837], *descr.* = *Aster* Linn.*multiflora* Raf. ex Jacks*. Ind. Kew. 1:59. 1893 (*Aster multiflorus* Ait.). North America.**AGOSERIS** Raf. Fl. Ludovic. 58. 1817, *nom.*, *nota* (*Troximon* sp.); Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 239. 1820, *descr.* (*Troximon* sensu Pursh, 1814, non Gaertn., 1791).**glauca* Raf. Herb. Raf. 39. 1833, *nom.* (*Troximon glaucum* Nutt.). Western North America (*Agoseris glauca* Greene, 1891).**undulata* Raf. l.c., *nom.* (*Troximon cuspidatum* Pursh). Western North America (*Nothocalais cuspidata* Greene).***AIMORA** Raf. Good Book 46. 1840, *nom.*, *sphalm.* = seq.**AIMORRA** Raf. New Fl. N. Am. 4:70. 1836 [1838], *descr.* = Quid?*acuminata* Raf. l.c., *descr.*; Aut. Bot. 21. 1840, *nom.* Florida.#**ALBIGULA** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.*, subgen. *Solidago* Linn. (Type *Solidago bicolor* Linn.).†**ALISETA** Raf. Herb. Raf. 79. 1833, *nom.*; New Fl. N. Am. 2:22. 1836 [1838], *descr.*; Good Book 45. 1840, *nom.* Quid?†*plantaginea* Raf. Herb. Raf. et New Fl. l.c., *nom.*, *descr.* Florida.**ALKIBIAS** Raf. Fl. Tellur. 4:119. 1836 [1838], *descr.* = *Vernonia* Schreb. (1791), *nom. conserv.* (Behen Hill, 1762).*hastata* Raf. l.c., *descr.* (*Stachelina hastata* Vahl; *Chrysocoma spathulata* Forsk.). Arabia = *Vernonia atriplicifolia* Jaub. & Spach.*mucronata* Raf. ex Jacks*. Ind. Kew. 1:76. 1896 (*Chrysocoma mucronata* Forsk.). Egypt, Arabia = *Iphiona mucronata* (Forsk.) Aschers. & Schweinf. (*I. juniperifolia* Cass.).*ovata* Raf. ex Jacks*. l.c. (*Chrysocoma ovata* Forsk.) Arabia.**AMBROSIA** Linn.**arenaria* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.***ANACTIS** Raf. New Fl. N. Am. 1:17. 1836, *nom.*, *nota* (*Aster discoideus* Ell.); op. cit. 4:69. 1836 [1838], *nom.*, *nota*; Fl. Tellur. 2:44. 1836 [1837], *descr.* (*Aster discoideus* Ell.), non *Anactis* Cass. (1827) = *Solidago* Linn. (*Brintonia* Greene, 1895).**discoidea* Raf. New Fl. N. Am. 4:69. 1836 [1838], *nom.* (*Aster discoideus* Ell.) = *Solidago discoidea* (Ell.) Torr. & Gray. (*Brintonia discoidea* Greene).†*glabra* Raf. Fl. Tellur. 2:44. 1836 [1837], *descr.* Alabama.†*pilosa* Raf. l.c., *descr.* Carolina.#**ANAXETON** Raf. Fl. Tellur. 4:118. 1836, *descr.*, subgen. *Stachelina* Linn. (Type *Leyssera squarrosa* Thunb.; *Stachelina gnaphalioides* Linn.) = *Helipterum* DC. (1837).***ANOMANTHA** Raf. New Fl. N. Am. 1:61. 1836, *nom.* (*Actinomeris alata* Nutt.) = *Verbesina* Linn.**ANOMANTIA** Raf. ex DC. Prodr. 5:617. 1836, *nom.* in syn. sub *Verbesina virginica* Linn. = *Verbesina* Linn.***ANOMERIS** Raf. New Fl. N. Am. 1:61. 1836, *nom.*, *nota* (*Actinomeris squarrosa* Nutt. var. *alba* Nutt. = *Actinomeris* Nutt. (1818)).**ANTHEMIS** Linn.†*cotuloides* Raf. Med. Fl. 1:46. 1828, *nom.*, *nota*, iter. Man. Med. Bot. 46. 1841; DC. Prodr. 6:13. 1838, *nom.* in syn. North America = *Anthemis cotula* Linn.**APLACTIS** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.* = *Solidago* Linn. (*Chrysoma* Nutt., 1834).*paniculata* Raf. l.c., *nom.* (*Solidago pauciflosculosa* Michx.). North America.**APLINA** Raf. Fl. Tellur. 4:119. 1836 [1838], *descr.* = *Stachelina* Linn.*fuscata* Raf. l.c., *descr.* (*Stachelina unifloscula* Sibth. & Sm.). Greece.***APTILON** Raf. New Fl. N. Am. 4:106. 1836 [1838], *nom. nov.* *Apogon* Ell. = *Serinia* Raf. (1817).**ARNICA** Linn.*brevicaulis* Raf. New Fl. N. Am. 2:23. 1836 [1837], *descr.* Alabama = *Arnica acaulis* (Walt.) Britton, Stearns & Poggenb.**ARNOGLOSSUM** Raf. Fl. Ludovic. 64. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.* = *Cacalia* Linn. (*Mesadenia* Raf. 1832).*plantagineum* Raf. op. cit. 65, *descr.* (*Chrysocoma à feuilles de Plantain* Rob. Voy. Louis. 3:435. 1807). Louisiana = *Cacalia tuberosa* Nutt. (1818).**ARTEMISIA** Linn.*amorpha* Raf. Fl. Ludovic. 69. 1817, *descr.* (*Artemisia* 2 Rob. Voy. Louis. 3:440. 1807). Louisiana.**aurea* Raf. Herb. Raf. 52. 1833, *nom.* Rocky Mountains or Oregon.**cinerea* Raf. op. cit. 63, *nom.* Kentucky or Illinois.**globulifera* Raf. op. cit. 52, *nom.* Rocky Mountains or Oregon.**ASTER** Linn.**flammuloides* Raf. Herb. Raf. 69. 1833, *nom.* Long Island, New Jersey, Chesapeake Bay.**heterophyllus* Raf. op. cit. 66, *nom.* Appalachian Mountains.**hyssopifolius* Raf. Atl. Jour. 1:17. 1832, *descr.* Illinois.*leucanthemus* Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:226. 1809, *descr.* Virginia.**maritimus* Raf. Fl. Tellur. 2:46. 1836 [1837], *nom.* sub *Fimbristima* Raf.**novanglia* Raf. Med. Fl. 2:198. 1830, *nom.* = *Aster novaeangliae* Linn. Eastern North America.*pratensis* Raf. Fl. Ludovic. 67. 1817, *descr.* (*Aster 5 à grandes fleurs* Rob. Voy. Louis. 3:437. 1807). Louisiana.**radicosus* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.**squamosus* Raf. Fl. Tellur. 2:46. 1836 [1837], *nom.* sub *Fimbristima* Raf.**BALDUINA** Nutt. (1818); Raf. Am. Monthly Mag. Crit. Rev. 4:187, 195. 1819, *nom.*, *nota*; Cincinnati Lit. Gaz. 3:28. 1824, *nom.*; New Fl. N. Am. 4:73. 1836, *nom.*, *nom. conserv.* = *Baldwinia* Torr. & Gray, 1842 (*Mnesteon* Raf. 1817; *Endorima* Raf., 1819).**bicolor* Raf. New Fl. N. Am. l.c., *descr.*; Aut. Bot. 21. 1840, *nom.* Florida.**lutea* Raf. l.c., *nom. nov.* *Balduina uniflora* Nutt. Southeastern United States (*Endorima uniflora* Barnhart).**multiflora* Nutt. Gen. Am. 2:175. 1818; Raf. op. cit. 1:61. 1836, *nom.* Southeastern United States (*Baldwinia multiflora* A. Gray, 1884) = *Balduina angustifolia* (Pursh) Robinson.**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).**uniflora* Nutt. l.c.; Raf. op. cit. 73, *nom.*; Herb. Raf. 48. 1833, *nom.* Southeastern United States (*Endorima uniflora* Barnhart).

- ***BALDUINIA** Raf. Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*=*praec.*
- BALDWINIA** Torr. & Gray, Fl. N. Am. 2:388. 1842=*Balduina* Nutt. (1818), *nom. conserv.*, vide supra.
- bicolor* Raf. ex Jacks*. Ind. Kew. 1:265. 1893 (*Balduina bicolor* Raf.). Florida.
- lutea* Raf. ex Jacks*. l.c. (*Balduina lutea* Raf.). North America=*Balduina uniflora* Nutt.
- ***BALTIMOREA** Raf. Princ. Somiol. 26. 1814, *nom. nov.* *Baltimore* Linn.; Fl. Tellur. 1:83. 1836 [1837], *nom.* (*Baltimore* Linn.).
- BARKHAUSIA** Moench=*Crepis* Linn.
- **bursifolia* Raf. Chloris Aetn. 6. 1815, *nom.* [*Crepis bursifolia* Linn.]. Sicily=*Barkhausia bursifolia* Spreng. (1826) =*Crepis bursifolia* Linn.
- BELLIS** Linn.
- ciliata* Raf. New Fl. N. Am. 2:24. 1836 [1837], *descr.* (*Bellis integrifolia* sensu Hook. Bot. Mag. 62: t. 3455. 1835). Texas =*Bellis integrifolia* Michx.=*Astranthium integrifolium* (Michx.) Nutt.
- var. *triflora* Raf. l.c., *descr.*
- integrifolia* Michx. (*Eclipta integrifolia* Spreng.; *Brachycome xanthocomoides* Less.). Tennessee=*Astranthium integrifolium* (Michx.) Nutt.
- var. *carnea* Raf. l.c., *descr.*
- elata* Raf. l.c., *descr.*
- pumila* Raf. l.c., *descr.*
- **maritima* Raf. Chloris Aetn. 6. 1815, *nom.* Sicily.
- **nudicaulis* Raf. op. cit. 11, *nom.* Sicily.
- †*nutans* Raf. Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 2:23. 1836 [1837], *descr.* Western Kentucky.
- †*parviflora* Raf. l.c., *nom.*, *descr.* Kentucky.
- BINDERA** Raf. New Fl. N. Am. 4:71. 1836 [1838], *descr.* Quid?
- ciliata* Raf. l.c., *descr.*; Aut. Bot. 21. 1840, *nom.* Louisiana or Florida.
- #**BRACHYACTIS** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.*, subgen. *Solidago* Linn. (Type *Solidago juncea* Ait.)=*Solidago* Linn.
- ***BRACHYPODA** Raf. New Fl. N. Am. 2:43. 1836 [1837], *nom. nov. provis.*, gen. vel subgen., sub *Paleista* Raf.=*Eclipta* Linn. (1771), *nom. conserv.* (*Eupatoriocephalacron* Adans., 1763).
- **prostrata* Raf. l.c., *nom. provis.* sub *Paleista prostrata* Raf.=*Eclipta alba* (Linn.) Hassk.
- BREPHOCTON** Raf. Fl. Tellur. 2:49. 1836 [1837], *descr.*=*Baccharis* Linn.
- cuneatum* Raf. l.c., *descr.* ("Erigeron do L.", i.e. *E. tricuneatum* Linn. f.). Mexico.
- #**BREVIGULA** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.*, subgen. *Leioligo* Raf. (Type *Leioligo cesia* Raf.; *Solidago caesia* Linn.)=*Solidago* Linn.
- BUPHTHALMUM** Linn.
- crassifolium* Raf. Specch. Sci. 1:192. 1814, *descr.*; Jour. Bot. (Desv.) 4:277 (err. 177). 1814, *nom.*; Précis Découv. Somiol. 1814, *nom.* (p. 4 of cover). Sicily=*Odontospermum maritimum* (Cass.) Schultz-Bip.
- CACALIA** Linn.
- macrophylla* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:174. 1809, *nom.* Central Atlantic United States.
- paniculata* Raf. Ann. Nat. Ann. Synop. 14. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.*; New Fl. N. Am. 4:79. 1836 [1838], *nom.* Kentucky=*C. tuberosa* Nutt. (1818).
- pteranthes* Raf. Ann. Nat. et First Cat. l.c., *descr.*, *nom.* Indiana, Illinois=*C. tuberosa* Nutt. (1818).
- pteranthus* Raf. ex Jacks*. Ind. Kew. 1:366. 1893=*praec.*
- pubescens* Raf. Fl. Ludovic. 61. 1817, *descr.* (*Cacalia 1* Rob. Voy. Louis. 3:432. 1807). Louisiana=? *Eupatorium serotinum* Michx.
- CACOTANIS** Raf. New Fl. N. Am. 2:40, *nom.*, 43, *descr.*, 1836 [1837]=*Boltonia* L'Hérit. (1788).
- ciliata* Raf. op. cit. 44, *descr.* (*Eclipta ciliata* Raf.). Louisiana =*Boltonia diffusa* Ell. (1823).
- CAENOTUS** (Nutt.) Raf. Fl. Tellur. 2:50. 1836 [1837], *descr.* [*Erigeron* Linn. subg. *Caenotus* Nutt.] =*Leptilon* Raf. (1837)=*Erigeron* Linn.
- **altissimus* Raf. l.c., *nom.* [North America].
- canadensis* Raf. ex Jacks*. Ind. Kew. 1:370. 1893 (*Erigeron canadensis* Linn.). North America=*Erigeron canadensis* Linn.
- **diffusus* Raf. Fl. Tellur. l.c., *nom.* [North America].
- longifolius* Raf. ex Jacks*. Ind. Kew. l.c. [*Erigeron longifolius* Desf.] =*Jasonia longifolia* (Desf.) Steud. Nomencl. 425. 1821; Cass. ex Jacks. Ind. Kew. 1:1251. 1893. Eastern North America fide Desfontaines; see Torr. & Gray, Fl. N. Am. 2:180. 1841.
- **maritimus* Raf. Fl. Tellur. l.c., *nom.* [North America].
- pusillus* Raf. ex Jacks*. l.c. (*Erigeron pusillus* Nutt.). North America=*E. canadensis* Linn.
- **uniflorus* Raf. Fl. Tellur. l.c., *nom.* [North America].
- CALENDULA** Linn.
- bicolor* Raf. Car. Nuov. Gen. Sp. Sicil. 82. 1810, *descr.*; Stat. Gen. Sicil. 28. 1810, *descr.* Sicily.
- fulgida* Raf. op. cit. 83, *descr.*; l.c., *nom.* Sicily.
- parviflora* Raf. l.c., *descr.*, *nom.*; Chloris Aetn. 6. 1815, *nom.*
- undulata* Raf. Car. Nuov. Gen. Sp. Sicil. 81. 1810, *descr.*; Stat. Gen. Sicil. l.c., *nom.* (*sphalm. hundulata*); Chloris Aetn. 7. 1815, *nom.* Sicily.
- CARADESIA** Raf. New Fl. N. Am. 4:78, 80. 1836 [1838], *nom.* =? *Eupatorium* Linn.
- pauciflora* Raf. l.c., *nom. alt.* *Eupatorium pauciflorum* Raf. Louisiana, Mississippi.
- CARGILA** Raf. Aut. Bot. 11. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:91. 1921, *nom.* (*Cargilla* Adans. 1763) =*Melampodium* Linn.
- dichotoma* Raf. l.c., *descr.*; Pennell, l.c., *nom.* South America =? *Melampodium longifolium* Cerv.
- ***CAULOMA** Raf. Atl. Jour. 1:163. 1832, *descr.*; Herb. Raf. 61. 1833, *nom.*; New Fl. N. Am. 1:61. 1836, *nom.* sub *Actimeris* Raf.; Life of Travels 68. 1836, *nom.* =*Verbesina* Linn.
- **tomentosa* Raf. Atl. Jour. l.c., *descr.*; Herb. Raf. 61. 1833, *nom.* Kentucky=*Verbesina helianthoides* Michx.
- ***CELESTINA** Raf. Herb. Raf. 47. 1833, *nom.* =*Coelestina* Cass. (1817) =*Ageratum* Linn.
- **cerulea* Raf. l.c., *nom.* =*Coelestina caerulea* Cass. =*Ageratum corymbosum* Zucc. Mexico.
- **villosa* Raf. l.c., *descr.*; op. cit. 52, *nom.* Rocky Mountains or Oregon.
- ***CENOTIS** Raf. New Fl. N. Am. 1:31. 1836, *nom.* =*seq.*
- **canadensis* Raf. l.c., *nom.* =*Erigeron canadensis* Linn. North America.
- ***CENOTUS** Raf. Fl. Tellur. 2:44. 1836 [1837], *nom.* sub *Mesoligus* Raf. =*Caenotus* Raf. =*Erigeron* Linn.
- CENTAUREA** Linn.
- **gracilis* Raf. Chloris Aetn. 11. 1815, *nom.* Sicily.
- ***CEREOPSIS** Raf. Cincin. Lit. Gaz. 2:28. 1824, *nom.* sub *Lophactis uniflora* Raf., *sphalm.* =*Coreopsis* Linn.
- #**CERULINIS** Raf. Fl. Tellur. 2:46. 1836 [1837], *descr.*, subgen. *Diplopappus* Cass.
- CHAMAEPEUCE** DC. =*Cirsium* Mill. (1754).
- imbricata* Raf. ex Jacks*. Ind. Kew. 1:504. 1893 (*Staelina chamaepeuce* Linn.). Crete, Greece =*Cirsium chamaepeuce* (Linn.) Ten.
- ***CHAMEPEUCE** Raf. Fl. Tellur. 4:118. 1838, *descr.* =*Chamaepeuce* DC. (1827) =*Cirsium* Mill. (1754).
- **imbricata* Raf. l.c., *descr.* (*Staelina chamaepeuce* Linn.). Crete, Greece =*Cirsium chamaepeuce* (Linn.) Ten.
- ***CHETANTHERA** Raf. New Fl. N. Am. 2:95. 1836 [1837], *nom.*, op. cit. 4:107. 1836 [1838], *nom.* =*Chaetanthera* Nutt. (1834), non Ruiz & Pavon (1794) =*Chaetopappa* DC. (1836).
- **asteroides* Raf. l.c. 2:95. *nom.* [*Chaetanthera asteroides* Nutt.] =*Chaetopappa asteroides* DC. Central United States.
- ***CHETOPAPPUS** Raf. New Fl. N. Am. 2:95. 1836 (1837), *nom.* in obs., *nom. nov.* *Chaetanthera* Nutt. (1834), non Ruiz & Pav. (1794) =*Chaetopappa* DC. (1836).
- CHONDROPHORA** Raf. New Fl. N. Am. 4:79. 1836 [1838], *nom.*, nota sub *Mesadenia* Raf. (*Chrysocoma nudata* Michx.) =*Bigelowia* DC. (1836), non Sm. (1819), nec Spreng. (1821), *nom. conserv.* (*Chondrophora* Raf. 1838).
- CHRYSANTHEMUM** Linn.
- angustifolium* Raf. Atl. Jour. 1:178. 1833, *descr.*; Herb. Raf. 25. 1833, *descr.* Texas.
- **cespitosum* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.

CHRYSOCOMA Linn.

**glauca* Raf. Herb. Raf. 79. 1833, *nom.* Alabama or Florida.
heterophylla Raf. Fl. Ludovic. 64. 1817, *descr.* (*Chrysocoma* 2 Rob. Voy. Louis. 3:435. 1807). Louisiana.
purpurea Raf. l.c., *descr.* (*Grand Chrysocoma* Rob. Voy. Louis. 3:434. 1807). Louisiana=*Liatris* sp.

**spatulata* Raf. Fl. Tellur. 4:119. 1836 [1838], *nom.* sub *Alkibias* Raf., *sphalm.*=*Chrysocoma spathulata* Forsk.=*Vernonia atriplicifolia* Jaub. & Spach (*V. spathulata* Hochst., 1867, non Schulz-Bip., 1854). Arabia.

***CICHERIA** Raf. Cincinnati Lit. Gaz. 1:11. 1824, *nom.*=*Cichorium* Linn.

CIRSIIUM Adans.

lutescens Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.

CLIPTERIA Raf. New Fl. N. Am. 2:44. 1836 [1837], *descr.*=*Eclipta* Linn. (1771), *nom. conserv.* (*Eupatoriocephalacron* Adans., 1763).

dichotoma Raf. New Fl. l.c., *descr.* Western Tennessee=*Eclipta alba* (Linn.) Hassk.

CNICUS Linn.

**edulis* Raf. Herb. Raf. 54. 1833, *nom.* Northwestern United States, "Shanatauk" (Lewis & Clark).

CONYZA Linn.

**egyptiaca* Raf. Fl. Tellur. 2:49. 1836 [1837], *nom.* sub *Edemias* Raf.=*Conyza aegyptiaca* Ait. Africa, Tropical Asia.

**marilandica* Raf. Fl. Ludovic. 150. 1817, *nom.*; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *nom.* sub *Stylimnus* Raf.; Isis von Oken 1820, 1: Lit. Anz. 239. 1820, *nom.* (*Conyza marylandica* Michx.). Eastern United States=*Pluchea marylandica* (Michx.) Cass.=*P. camphorata* (Linn.) DC.

COREOPSIS Linn.

flexicaulis Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:230. 1809, *descr.*; Herb. Raf. 67. 1833, *nom.* Southern New Jersey, Cumberland Mountains

**glauca* Raf. Herb. Raf. 80. 1833, *nom.* Alabama or Florida.
hirta Raf. Ann. Nat. Ann. Synop. 15. 1820, *nom.* sub *Peramibus hirtus* Raf. Kentucky=*Rudbeckia triloba* Linn.

**pentaria* Raf. l.c., *nom.* Alabama or Florida.

scabra Raf. Fl. Ludovic. 72. 1817, *descr.* (*Coreopsis* 3 Rob. Voy. Louis. 3:444. 1807). Louisiana.

**shortiana* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.

**tomentosa* Raf. l.c., *nom.* Cumberland Mountains.

**tritoma* Raf. l.c., *nom.* Cumberland Mountains.

#**CORYMBILIS** Raf. New Fl. N. Am. 4:75. 1836 [1838], *descr.*, subgen. *Liatris* Schreb. (1791).

CRENAMON Raf. New Fl. N. Am. 4:86. 1836 [1838], *descr.*=*Leontodon* Linn.

pectinatum Raf. l.c., *descr.* Appalachian (Unaka) Mountains, North Carolina.

CRITONIA P. Browne=*Eupatorium* Linn.

elliptica Raf. ex DC. Prodr. 5:178. 1836, *nom.* in syn. sub *Eupatorium pubescens* Muhl. Eastern United States=*E. pubescens* Muhl.

#**CRITONIA** Raf. Herb. Raf. 30. 1833, *nom.*, subgen. *Kuhnia* Linn. (Type *Kuhnia critonia* Willd.)=*Kuhnia* Linn.

CROPTILON Raf. Fl. Tellur. 2:47. 1836 [1837], *descr.*=*Aplopappus* Cass. (1826)=*Haplopappus* Cass., cor. Endl. (1837), *nom. conserv.* (*Hoorbeckia* Cornel., 1817).

divaricatum Raf. l.c., *descr.* (*Chrysopsis divaricata* Ell.). [*Inula divaricata* Nutt.]. Florida=*Haplopappus divaricatus* (Nutt.) A. Gray.

***CYANANTHUS** Raf. Anal. Nat. Tabl. Univ. 192. 1815, *nom. nov.* *Cyanus* Linn.=*Centaurea* Linn.

DASIORIMA Raf. Fl. Tellur. 2:43. 1836 [1837], *descr.*=*Solidago* Linn.

elliotti Raf. l.c., *descr.* (*Solidago limonifolia* sensu Ell.). South Carolina.

limonifolia Raf. l.c., *descr.* (*Solidago limonifolia* Pers.). Eastern North America=*Solidago sempervirens* Linn.

mexicana Raf. l.c., *descr.* (*Solidago mexicana* Linn.). Mexico.

DASYRANTHUS Raf. ex Steud. Nomencl. ed. 2, 1:484. 1840, *nom.*=*Gnaphalium* Linn.

DECTIS Raf. Fl. Tellur. 2:43. 1836 [1837], *descr.*=*Commidendron* DC. (1833).

arborescens Raf. l.c., *nom.* (*Solidago arborescens* Forst. f.). New Zealand=*Olearia arborescens* (Forst. f.) Cockayne & Laing (*Olearia nitida* Hook. f.).

decurrens Raf. l.c., *descr.* (*Solidago decurrens* Lour.). Southern China=*Solidago virgaurea* Linn., sensu lat.; see Merr. Trans. Am. Philos. Soc. II. 24(2):384. 1935 (*Amphiraphis leiocarpa* Benth., *Solidago virgaurea* Linn. var. *leiocarpa* Miq.).

leucadendron Raf. l.c., *nom.* (*Solidago leucadendron* Forst. f.). St. Helena=*Senecio leucadendron* (Forst. f.) Benth. & Hook. f.

rugosa Raf. l.c., *nom.* (*Solidago spuria* Forst.; *Conyza rugosa* Ait.?). St. Helena=*Commidendron spurium* (Forst.) DC.

DEINOSMOS Raf. Fl. Tellur. 2:49. 1836 [1837], *descr.*=*Pulicaria* Gaertn. (1791).

siculus Raf. l.c., *descr.* (*Erigeron siculus* Linn.). Sicily=*Jasonia sicula* DC.=*Pulicaria sicula* (Linn.) Moris.

***DIANISTERIS** Raf. Atl. Jour. 1:153. 1832, *nom. subnud.* sub *Ochronelis* Raf. (*Helianthus aristatus* Ell.)=*Verbesina* Linn.

***DICROACTIS** Raf. Herb. Raf. 67. 1833, *nom.*=? *Coreopsis* Linn.

**parviflora* Raf. l.c., *nom.* Cumberland Mountains.

**rugosa* Raf. l.c., *nom.* (*Coreopsis*). Cumberland Mountains.

DIPLACTIS Raf. Fl. Tellur. 2:45. 1836 [1837], *descr.*=*Aster* Linn.

alpina Raf. ex Jacks*. Ind. Kew. 1:769. 1893 (*Aster alpinus* Linn.). Europe, North America.

blanda Raf. ex Jacks*. l.c. (*Aster blandus* Pursh). North America.

caucasica Raf. ex Jacks*. l.c. (*Aster caucasicus* Willd.). Caucasus region.

cyanea Raf. ex Jacks*. l.c. (*Aster cyaneus* Hoffm.). Eastern North America.

novanglia Raf. ex Jacks*. l.c. (*Aster novae-angliae* Linn.). North America.

DIPLEMUM Raf. Fl. Tellur. 2:50. 1836 [1837], *descr.*=*Erigeron* Linn.

carolinianum Raf. ex Jacks*. Ind. Kew. 1:770. 1893 (*Erigeron carolinianus* Linn.). North America=*Euthamia caroliniana* (Linn.) Greene (*Solidago tenuifolia* Pursh).

nervosum Raf. ex Jacks*. l.c. (*Erigeron nervosus* sensu Pursh). North America.

**paniculatum* Raf. Fl. Tellur. 2:51. 1836 [1837], *nom.* (*Erigeron strigosus* sensu Ell.). Southeastern United States.

quercifolium Raf. ex Jacks*. l.c. (*Erigeron quercifolius* Lam.). Southeastern United States.

strigosum Raf. ex Jacks*. l.c. (*Erigeron strigosus* sensu Ell.). Southeastern United States=*Erigeron strigosus* Muhl.

†**DIPLOGON** Raf. Fl. Ludovic. 167. 1817, *nom.* Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.* (*Inula mariana* Linn.); op. cit. 4:195. 1819, *nom.*, *nota.*; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*, *nota.*; Fl. Tellur. 1:16. 1836 [1837], *nom.*; op. cit. 2:46. 1836 [1837], *nom.*, *nota.*=*Chrysopsis* (Nutt.) Ell. 1824, *nom. conserv.* (*Diplogon* Raf., 1818; *Inula* Linn. sect. *Chrysopsis* Nutt. 1818).

**argenteum* Raf. Atl. Jour. 1:119. 1832, *nom.*, *sphalm.* "argenteum." Maryland.

**asper* Raf. Herb. Raf. 40. 1833, *nom.* (*Inula [scabra]* Pursh). North America=*Heterotheca subaxillaris* (Lam.) Britton & Rusby (*Heterotheca lamarckii* Cass.).

**ciliolatum* Raf. op. cit. 67, *nom.* Cumberland Mountains.

ericoides Raf. Atl. Jour. 1:146. 1832, *nom.* (*Inula ericoides* Torr.). North America=*Aster leucelene* Blake, Contr. U. S. Nat. Herb. 25:562. 1925, *cum. syn.*

graminifolium Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* (*Inula graminifolia* Michx.). North America=*Chrysopsis mariana* (Linn.) Ell.

marianum Raf. ex Jacks*. Ind. Kew. 1:771. 1893 (*Inula mariana* Linn.). North America=*Chrysopsis mariana* (Linn.) Ell.

marianus Raf. ex DC. Prodr. 5:327. 1836, *nom.* in syn. sub *Chrysopsis mariana* (Linn.) Ell.=*praece.*

stenophyllum Raf. ex DC. l.c., *nom.* in syn. sub *Chrysopsis argentea* Ell. North America=*Chrysopsis graminifolia* (Linn.) Ell.

***DIPLOPAPUS** Raf. Fl. Tellur. 2:46. 1836 [1837], *nom.*=*Diplopappus* Cassini (1819)=*Aster* Linn.

DIPLOSTELMA Raf. New Fl. N. Am. 2:44. 1836 [1837], *descr.*; op. cit. 95. 1836 [1837], *nom.*, *nota* (*Chaetanthera* Nutt.); op. cit. 4:107. 1836 [1838], *nom.*, *nota* (*Chaetanthera* Nutt., 1834, non Ruiz & Pavon, 1794); Good Book 45. 1840, *nom.*=*Chaetopappa* DC. (1836).

- filiformis* Raf. op. cit. 2:45, *descr.*; Aut. Bot. 12. 1840, *nom.*
Texas=Chaetopappa asteroides (Nutt.) DC.
- pumila* Raf. ll.cc., *descr. nom.* Texas, Arkansas=Chaetopappa asteroides (Nutt.) DC. fide Raf. op. cit. 2:95.
- radians* Raf. ll.cc., *descr. nom.* Texas=praec.
- ***DIPLOSTEPHION** Raf. Fl. Tellur. 2:46. 1836 [1837], *nom.*, *nota* (*Aster aurantius* Linn.; *A. pinnatus* Cav.), non *Diplostephium* H.B.K. (1820)=*Dyssodia* Cav. (1802).
- DISCOMELA** Raf. Neogen. 3. 1825, *descr.*; New Fl. N. Am. 4: 70. 1836 [1838], *nom.*=*Helianthus* Linn.
- angustifolia* Raf. ex Jacks*. Ind. Kew. 1:778. 1893 (*Helianthus angustifolius* Linn.). North America.
- atrorubens* Raf. ex Jacks*. l.c. (*Helianthus atrorubens* Michx.). North America.
- sparsiflora* Raf. ex Jacks*. l.c. (*Helianthus sparsiflorus* Ell.). Southeastern United States.
- DISYNANTHUS** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*; op. cit. 4:195. 1819, *nom.*=*Antennaria* Gaertn. (1791).
- plantagineus* Raf. ex Jacks*. Ind. Kew. 1:782. 1893. (*Gnaphalium plantagineum* Linn.). North America=Antennaria plantaginifolia (Linn.) Richards.
- #**DODECALIS** Raf. Fl. Tellur. 2:45. 1836 [1837], *descr.*, subgen. *Asteriscus* Tourn. (*Aster* Linn.) (Type *Aster corymbosus* Dry.)=Aster Linn.
- DONIANA** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov.* *Donia* R. Br. (1813)=*Grindelia* Willd. (1807).
- #**DORIA** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.*, subgen. *Leioligo* Raf. (Type *L. petiolaris* Raf.)=Doria Adans. (1763)=Solidago Linn.
- DYSINANTHUS** Raf. ex DC. Prodr. 6:270. 1838, *nom.* in syn.=Antennaria Gaertn. (1791).
- plantagineus* Raf. ex DC. l.c., *nom.* in syn. North America=Antennaria plantaginea DC. (*Gnaphalium plantagineum* Linn.)=Antennaria plantaginifolia (Linn.) Richards.
- ECLIPTA** Linn. (1771), *nom. conserv.* (*Eupatoriocephalacron* Adans., 1763).
- ciliata* Raf. Fl. Ludovic. 69. 1817, *descr.* (*Radiée* anonyme Rob. Voy. Louis. 3:449. 1807); Med. Fl. 2:217. 1830, *nom.*; New Fl. N. Am. 2:40. 1836 [1837], *nom.* Louisiana.
- dichotoma* Raf. New Fl. N. Am. 2:42. 1836 [1837], *descr.* Arkansas.
- dua* Raf. op. cit. 40, *descr.* (*E. erecta* sensu Pursh, Elliott). Virginia to Florida=Eclipta alba (Linn.) Hassk.=E. prostrata (Linn.) Linn.
- flexuosa* Raf. New Fl. N. Am. 2:41. 1836 [1837], *descr.* (*E. erecta* Linn.). South America.
- **geminata* Raf. Herb. Raf. 61. 1833, *nom.* Kentucky or Illinois.
- **levigata* Raf. New Fl. N. Am. 2:44. 1836 [1837] sub *Clipteria dichotoma* Raf., *nom.*, *nota*. Tennessee=Clipteria dichotoma Raf.
- **longifolia* Raf. op. cit. 40, *descr.* New Jersey to Florida.
- nutans* Raf. op. cit. 42, *descr.* Maryland, Virginia, Kentucky.
- var. *diffusa* Raf. l.c., *descr.*
- var. *pauciflora* Raf. l.c., *descr.*
- †*pumila* Raf. Herb. Raf. 67. 1833, *nom.*; New Fl. N. Am. 2: 42. 1836 [1837], *descr.* Eastern Kentucky.
- simplex* Raf. New Fl. N. Am. 2:41. 1836 [1837], *descr.* Alabama, Tennessee.
- sulcata* Raf. l.c., *descr.* Louisiana.
- tinctoria* Raf. l.c., *descr.* (*E. erecta* sensu Willd., Pers.). Asia and Egypt.
- EDEMIAS** Raf. Fl. Tellur. 2:49. 1836 [1837], *descr.*=*Conyza* Linn.
- egyptiaca* Raf. ex Jacks*. Ind. Kew. 1:822. 1893 (*Conyza aegyptiaca* Ait.) Africa, tropical Asia.
- gouani* Raf. ex Jacks*. l.c. (*Conyza gouani* Willd.). Canary Islands.
- ELEPHANTOPUS** Linn.
- **dichotomus* Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Kentucky.
- flexuosus* Raf. Fl. Ludovic. 73. 1817, *descr.* (*Fausse radiée* Rob. Voy. Louis. 3:448. 1807); First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Louisiana, Kentucky=E. carolinianus Raesch.
- ENDORIMA** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom. nov.* *Balduina* Nutt.; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* (*Balduina* Nutt., "*Balduinia*" Raf.)=Balduina Nutt. (1818), *nom. conserv.* (*Mnesiteon* Raf., 1817; *Endorima* Raf. 1819).
- †**ENDORIMA** Raf. Fl. Tellur. 2:91. 1836 [1837], *descr.*, non Raf., 1819=Helipterum DC. (1837).
- modesta* Raf. l.c., *descr.* (*Astelma modesta* Sieber; *Gnaphalium modestum* Hook. Bot. Mag. 54: t. 2710. 1827). South Africa=Helipterum gnaphaloides (Linn.) DC.
- ***ENTROCHIMUM** Raf. New Fl. N. Am. 4:81. 1836 [1838], *nom.* sub *Eupatorium pauciflorum* Raf.=Eupatorium Linn.
- EPATITIS** Raf. New Fl. N. Am. 2:17. 1836 [1837], *descr.*; op. cit. 4:78. 1836 [1838], *nom.*=Adenostyles Cass. (1866).
- obliqua* Raf. l.c., *descr.* Oregon=A. glabra (Mill.) DC.
- ERECHTITES** Raf. Fl. Ludovic. 65. 1817, *descr.*⁴⁵
- hieracifolia* (Linn.) Raf. ex DC. Prodr. 6:294. 1838 (*Senecio hieracifolia* Linn.). Eastern North America.
- **pauciflora* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
- prealta* Raf. Fl. Ludovic. 65. 1817, *descr.* (Ind. Kew. 1:860. 1893, *E. praealta* Raf.) (*Anonyme* Rob. Voy. Louis. 3:435. 1807). Louisiana=E. hieracifolia (Linn.) Raf. var. *prealta* (Raf.) Fernald.
- **uniflora* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
- ERIGERON** Linn.
- canadensis* Linn. Eastern North America.
- var. *lanceolatus* Raf. Med. Fl. 1:164. 1828, iter. Man. Med. Bot. 164. 1841, *nom.*
- maritimus* Raf. ll.cc., *nom.*
- pusillus* Raf. ll.cc., *nom.*
- serratus* Raf. ll.cc., *nom.*
- uniflorus* Raf. ll.cc., *nom.*
- virgatus* Raf. ll.cc., *nom.*
- **heterophyllus* Raf. ll.cc., *descr.* (*Aster annuus* Linn.). Eastern North America.
- hyemalis* Raf. Fl. Ludovic. 65. 1817, *descr.* (*Vergerolle 1* Rob. Voy. Louis. 3:436. 1807). Louisiana=E. philadelphicus Linn.
- lyratus* Raf. Atl. Jour. 1:147. 1832, *descr.* Florida.
- ramosus* Raf. Fl. Ludovic. 66. 1817, *descr.* (*Vergerolle 2, à rayon blanc, disque grisâtre* Rob. op. cit. 437). Louisiana.
- #**ERPOTA** Raf. New Fl. N. Am. 1:51. 1836, *descr.* subgen. *Acmella* Rich. (Type *Acmella repens* Rich.)=Spilanthes Jacq. (1760).
- ESOPON** Raf. Fl. Ludovic. 57. 1817, *nom. nov. provis.*; op. cit. 149, *nom.*, *nota*=Prenanthes Linn.
- glaucum* Raf. op. cit. 149, *nom.* (*Prenanthes ? glauca* Raf.: *Chicorée usuelle* Rob. Voy. Louis. 3:424. 1807); Med. Fl. 2:219. 1830, *nom.* Louisiana=Prenanthes serpentaria Pursh.
- #**ETETRA** Raf. New Fl. N. Am. 4:73. 1836 [1838], *nom.*, subgen. *provis.* *Stevia* Cav., sub *Stevia ovata* Raf.
- EUNOXIS** Raf. New Fl. N. Am. 4:82, 84. 1836 [1838], *nom. nov.* *Agathyrsus* D. Don (1829)=Lactuca Linn.
- amabilis* Raf. op. cit. 84, *descr.* (*Agathyrsus amabilis* Raf.). Alleghany Mountains.
- EUPATORIUM** Linn.
- altissimum* Linn. var. *longifolium* Raf. Fl. Ludovic. 62. 1817, *descr.* (*Eupatoire 2* Rob. Voy. Louis. 3:435. 1807). Louisiana.
- **celestinum* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*=E. celestinum Linn.
- cinereum* Raf. New Fl. N. Am. 4:80. 1836 [1838], *descr.* Alabama.
- crassifolium* Raf. Fl. Ludovic. 62. 1817, *descr.* (*Eupatoire 1* Rob. Voy. Louis. 3:433. 1807); Med. Fl. 2:219. 1830, *nom.* Louisiana.
- **ellipticum* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
- fulvum* Raf. New Fl. N. Am. 4:80. 1836 [1838], *descr.* Alabama.
- **glaucum* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
- **longipes* Raf. Atl. Jour. 1:17. 1832, *nom. alt.* *E. pectinatum* Raf.; Herb. Raf. 61. 1833, *nom.* Ohio River.

⁴⁵ This generic name has been accepted by all authors, and yet it is rather curious to note that Candolle, Prodr. 6:294. 1838, in his full description of the genus, states "Erechtites Rafin. fl. ludov. (1817) p. 65 (excl. char.)". This probably should be interpreted to mean *char. emend.*, as, ex *descr.*, the type *E. prealta* Raf. is now placed as a variety of *E. hieracifolia* (Linn.) Raf. ex DC.

EUPATORIUM (*continued*).

- luteum** Raf. Med. Repos. II. 5:361. 1808, *descr.*; Jour. Bot. (Paris) 1:230. 1809, *descr.* New Jersey.
- obovatum** Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:225. 1809, *descr.* Virginia.
- pauciflorum** Raf. New Fl. N. Am. 4:80. 1836 [1838], *descr.* Louisiana, Mississippi.
- pectinatum** Raf. Atl. Jour. 1:17. 1832, *descr.*; New Fl. N. Am. 4:81. 1836 [1838], *nom.* Ohio River.
- †rupestre** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 61. 1833, *nom.*; Atl. Jour. 1:17. 1832, *descr.*; New Fl. N. Am. 4:81. 1836 [1838], *nom.* Kentucky.
- *serratum** Raf. Atl. Jour. 1:17. 1832, *descr.*; New Fl. N. Am. 4:81. 1836 [1838], *nom.* Virginia (Potomac River).
- *stenophyllum** Raf. Herb. Raf. 79. 1833, *nom.* Florida or Alabama.
- *tomentosum** Raf. op. cit. 67, *nom.* Cumberland Mountains.
- violaceum** Raf. Fl. Ludovic. 62. 1817, *descr.* (*Cacalia violette à feuilles d'Ortie* Rob. Voy. Louis. 3:432. 1807); Med. Fl. 1:180. 1828, *descr.*, iter. Man. Med. Bot. 180. 1841, Louisiana, Alabama=*E. coelestinum* Linn.
- #EUTHYRSIS** Raf. New Fl. N. Am. 4:75. 1836 [1838], *descr.* subgen. *Liatris* Schreb. (1791).
- *EUTROCHIUM** Raf. New Fl. N. Am. 4:78. 1836 [1838], *nom.*, *sphalm.*=*Eupatorium* Linn.
- EVAX** Gaertn.
- verna** Raf. Atl. Jour. 1:178. 1833, *descr.*; Herb. Raf. 24. 1833, *descr.* Texas and Louisiana.
- #FIMBRAMIS** Raf. Fl. Tellur. 2:45. 1836 [1837], *descr.*, subgen. *Asteriscus* (Tourn.) Mill. Type *Aster foliolosus* Ait.)=*Aster* Linn.
- FIMBRISTIMA** Raf. Fl. Tellur. 2:46. 1836 [1837], *descr.*=*Aster* Linn.
- flexuosa** Raf. ex Jacks*. Ind. Kew. 1:966. 1893 (*Aster flexuosus* Nutt.). North America.
- maritima** Raf. ex Jacks*. l.c. (*Aster maritimus* Raf.). North America.
- sparsiflora** Raf. ex Jacks*. l.c. (*Aster sparsiflorus* Pursh). North America.
- squamosa** Raf. ex Jacks*. l.c. (*Aster squamosus* "L.", *sphalm.* [*Aster squarrosus* Walt.]).
- *FLOSTOLONIA** Raf. Herb. Raf. 80. 1833, *nom.*, *nota*. Quid?
- *stolonifera** Raf. l.c., *nom.* Hab.?
- FLUSTULA** Raf. Sylva Tellur. 116. 1838, *descr.*=*Vernonia* Schreb. (1791), *nom. conserv.* (Behen Hill, 1762).
- tomentosa** Raf. l.c., *descr.* (*Conyza arborescens* Linn.). Jamaica=*Vernonia arborescens* (Linn.) Sw.
- *FORBESINA** Raf. Sylva Tellur. 117. 1838, sub *Zexmenia* Llave, *nom. nov.* *Verbesina* Linn.
- FORNICARIA** Raf. Sylva Tellur. 116. 1838, *descr.*=*Salmea* DC. (1813), non Cav. (1794), *nom. conserv.* (*Hopkirkia* Spreng., 1819; *Fornicaria* Raf., 1838).
- scandens** Raf. l.c., *nom.* (*Bidens scandens* Linn.). Jamaica, Mexico=*Salmea scandens* (Linn.) DC.
- FRAGMOSA** Raf. Fl. Tellur. 2:50. 1836 [1837], *descr.*=*Erigeron* Linn.
- alpina** Raf. ex Jacks*. Ind. Kew. 1:974. 1893 (*Erigeron alpinus* Linn.). Boreal and Arctic regions.
- aspera** Raf. ex Jacks*. l.c. (*Erigeron asper* Nutt.). North America.
- glabella** Raf. ex Jacks*. l.c. (*Erigeron glabellus* Nutt.). North America.
- nudicaulis** Raf. ex Jacks*. l.c. (*Erigeron nudicaulis* Michx.). North America.
- pumila** Raf. ex Jacks*. l.c. (*Erigeron pumilus* Nutt.). North America.
- uniflora** Raf. ex Jacks*. l.c. (*Erigeron uniflorus* Linn.). Boreal and Arctic regions.
- GAILLARDIA** Fouger.
- amara** Raf. ex Jacks*. Ind. Kew. 1:986. 1893 (*Gaillardia amara* Raf.). Louisiana.
- GALARDIA** Lam. (1788)=*Gaillardia* Fouger. (1786).
- *amara** Raf. Fl. Ludovic. 69. 1817, *descr.* (*Anthemis* Rob. Voy. Louis. 3:440. 1807); Med. Fl. 2:222. 1830, *nom.*, *nota*. Louisiana.
- *mandanensis** Raf. Herb. Raf. 40. 1833, *nom.* (Upper Missouri (Mandan country)=Dakota.
- *repens** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.

- *GNAFALIUM** Raf. Chloris Aetn. 6. 1815, *nom.*=*Gnaphalium* Linn.
- *heteranthum** Raf. l.c., *nom.* Sicily=*Gnaphalium heteranthum* Raf.
- GNAPHALIUM** Linn.
- *chrysargyrum** Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Eastern United States.
- heteranthum** Raf. Specch. Sci. 2:170. 1814, *descr.* Sicily.
- *nemocladum** Raf. Western Minerva 42. 1821, *nom.*, iter. Fox, Sci. II. 12:213. 1900, *nom.* Missouri.
- rupestre** Raf. Précis Découv. Somiol. 41. 1814, *descr.*; Jour. Bot. (Desv.) 4:271. 1814, *descr.* Sicily=*Helichrysum rupestre* (Raf.) DC.
- *stoechas** Raf. First Cat. Bot. Gard. Transylv. Univ. 21. 1824, *nom.*=*G. stoechas* Linn.=*Helichrysum stoechas* (Linn.) DC.
- GONOTHECA** Raf. Med. Repos. II. 5:352. 1808, *nom.* (*Polymnia tetragonotheca* Linn.); Jour. Bot. (Paris) 2:171. 1809, *nom.*; Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.* (*Tetragonotheca* Linn.); op. cit. 4:195. 1819, *nom.* (*Tetragonotheca* Linn.); Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* (*Tetragonotheca* Linn.)=*Tetragonotheca* Linn.
- helianthoides** Raf. Med. Repos. l.c.; Jour. Bot. (Paris) l.c., *nom.* (*Polymnia tetragonotheca* Linn.); First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Med. Fl. 2:224. 1830, *nom.*; A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.*=*Tetragonotheca helianthoides* Linn. Southeastern United States.
- #GRAVEOLARIA** Raf. Fl. Tellur. 2:49. 1836 [1837], *nom.* subgen. *Paniopsis* Raf. (Type *Erigeron graveolens* Linn.)=*Inula* Linn.
- *GYMNOSTYLES** Raf. Fl. Ludovic. 150. 1817, *nom.* (*Conyza marylandica* Michx.), non Juss. (1804)=*Pluchea* Cass. (1817).
- GYMNOSTYLIS** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*=*Pluchea* Cass. (1817).
- marylandica** Raf. ex Jacks*. Ind. Kew. 1:1078. 1893 (*Conyza marylandica* Michx.). Eastern North America=*Pluchea camphorata* (Linn.) DC.
- GYNEMA** Raf. Fl. Ludovic. 63. 1817, *descr.*; op. cit. 150, *nota.*; Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.*, *nota*=*Pluchea* Cass. (1817).
- argentea** Raf. Fl. Ludovic. l.c., *descr.* (*Gnaphale* 2 Rob. Voy. Louis. 3:434. 1807). Louisiana.
- balsamica** Raf. l.c., *descr.* (*Gnaphale lilas ou baume des sauvages* Rob. op. cit. 433); Med. Fl. 2:226. 1830, *nom.* Louisiana.
- †dentata** Raf. Ann. Nat. Ann. Synop. 15. 1820, *nom. nov.* *G. viscida* Raf.; DC. Prodr. 5:452. 1836, *nom.* in syn. Kentucky=*Pluchea foetida* (Linn.) DC. fide DC. l.c.
- *graveolens** Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.*; Herb. Raf. 62. 1833, *nom.* Kentucky or Illinois.
- parviflora** Raf. Fl. Ludovic. 64. 1817, *descr.* (*Gnaphale* 3 Rob. op. cit. 434). Louisiana=*Antennaria* sp.
- viscida** Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.* Kentucky=*Pluchea viscida* House (1921)=*P. camphorata* (Linn.) DC.; see Fernald, *Rhodora* 41:459-461. 1939.
- *HASTEOLA** Raf. New Fl. N. Am. 4:78, 79. 1836 [1838], *nom.*, *nota*, sub *Mesadenia* Raf. (Type *Cacalia suaveolens* Linn.)=*Cacalia* Linn.
- HELENIUM** Linn.
- anceps** Raf. New Fl. N. Am. 4:81. 1836 [1838], *descr.*; Aut. Bot. 54. 1840, *nom.* Georgia, Florida.
- autumnale** Linn.; Raf. op. cit. 82.
- var. **angustifolium** Raf. l.c., *nom.*
- var. **brevifolium** Raf. l.c., *nom.*
- var. **elatum** Raf. l.c., *nom.*
- var. **latifolium** Raf. l.c., *nom.*
- var. **levigatum** Raf. l.c., *nom.*
- var. **longifolium** Raf. l.c., *nom.*
- var. **pauciflorum** Raf. l.c., *nom.*
- var. **prealtum** Raf. Med. Fl. 1:236. 1828, *nom.*, iter. Man. Med. Bot. 236. 1841.
- var. **pumilum** Raf. l.c., *nom.*
- var. **villosum** Raf. l.c., *nom.*
- *cuneifolium** Raf. Aut. Bot. 54. 1840, *descr.* Unaka Mountains, North Carolina.
- dichotomum** Raf. New Fl. N. Am. 4:81. 1836 [1838], *descr.*; Aut. Bot. 54. 1840, *nom.* Western Kentucky.

- discovatum* Raf. l.c., *descr.*, 108, *nota*; Aut. Bot. l.c., *nom.* Florida.
- flexuosum* Raf. l.c., *descr.*, *nom.*, Indiana=*H. nudiflorum* Nutt.
- traxillum* Raf. New Fl. N. Am. 4:82. 1836 [1838], *descr.*; Aut. Bot. 54. 1840, *nom.* Illinois.
- HELEPTA** Raf. Neogen. 3. 1825, *descr.*; New Fl. N. Am. 1:51, 52. 1836, *descr.* (subgen. *Acmella* Rich.); op. cit. 4:70. 1836 [1838], *nom.*=*Heliopsis* Pers. (1807).
- angustifolia* Raf. Neogen. 3. 1825, *descr.* Eastern Kentucky and Cumberland Mountains.
- grandiflora* Raf. l.c., *descr.* Eastern Kentucky and Cumberland Mountains.
- parviflora* Raf. l.c., *descr.* Eastern Kentucky and Cumberland Mountains.
- HELIANTHUS** Linn.
- **albicaulis* Raf. Herb. Raf. 63. 1833, *nom.* Kentucky or Illinois.
- **apetalus* Collins ex Raf. New Fl. N. Am. 4:69. 1836 [1838], *nom.* in syn. sub *Neactelis strigosa* Raf.
- **ciliatus* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
- hirsutus* Raf. Ann. Nat. Ann. Synop. 14. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky (Knob Hills). Pennsylvania to Wisconsin southward to Georgia, Kansas and Texas.
- **limosus* Raf. Herb. Raf. 63. 1833, *nom.* Kentucky or Illinois.
- **nudicaulis* Raf. First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky.
- **parviflorus* Raf. l.c., *nom.* Kentucky.
- procumbens* Raf. Fl. Ludovic. 70. 1817, *descr.* (*Bupthalamum* Rob. Voy. Louis. 3:441. 1807). Louisiana (*H. debilis* Nutt., 1841).
- striatus* Raf. Atl. Jour. 1:17. 1832, *descr.* Kentucky.
- tenellus* Raf. l.c., *descr.* Eastern Kentucky.
- HELICHOEA** Raf. Neogen. 3. 1825, *descr.*; Med. Fl. 2:227. 1830, *nom.*; Seringe, Bull. Bot. 1:216. 1830, *nom.*, *nota*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 81. 1833=*Echinacea* Moench (1794)=*Brauneria* Neck. (1790).
- alba* Raf. Neogen. l.c., *nom.* (*Rudbeckia purpurea* Linn.). North America=*Echinacea purpurea* (Linn.) Moench=*Brauneria purpurea* (Linn.) Britton.
- amena* Raf. l.c., *nom.* (*Rudbeckia purpurea* Linn.). North America=*praec.*
- crocea* Raf. l.c., *nom.* (*Rudbeckia purpurea* Linn.); Atl. Jour. 1:150. 1832, *descr.* Indiana=*praec.*
- elator* Raf. l.c., *nom.* (*Rudbeckia purpurea* Linn.). North America=*praec.*
- fusca* Raf. l.c., *nom.* (*Rudbeckia purpurea* Linn.). North America=*praec.*
- fuscata* Raf. Atl. Jour. 1:150. 1832, *descr.* Indiana=*praec.*
- linneana* Raf. Neogen. 3. 1825, *nom.* (*Rudbeckia purpurea* Linn.)=*seq.*
- purpurea* Raf. ex Jacks*. Ind. Kew. 1:1113. 1893 (*Rudbeckia purpurea* Linn.)=*Echinacea purpurea* (Linn.) Moench=*Brauneria purpurea* (Linn.) Britton.
- uniflora* Raf. Neogen. l.c., *nom.* (*Rudbeckia purpurea* Linn.). North America=*praec.*
- ***HELICROEA** Raf. Loud. Gard. Mag. 8:247. 1832, *nom.*, *nota*, *iter.* Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, *iter.* Britten, Jour. Bot. 38:227. 1900=*praec.*
- ***HELIOCHROEA** Raf. Herb. Raf. 30. 1833, *nom.*=*praec.*
- **albiflora* Raf. op. cit. 31, *descr.* Western Kentucky and Tennessee=*Brauneria purpurea* (Linn.) Britton.
- **amena* Raf. l.c., *descr.* Western Kentucky=*Brauneria purpurea* (Linn.) Britton.
- **angustifolia* Raf. l.c., *descr.* Western Kentucky=*Brauneria pallida* (Nutt.) Britton.
- **crocea* Raf. op. cit. 32, *descr.* Indiana=*Brauneria purpurea* (Linn.) Britton.
- **elator* Raf. op. cit. 31, *descr.* Western Kentucky=*Brauneria purpurea* (Linn.) Britton.
- **fuscata* Raf. l.c., *descr.* Indiana=*Brauneria purpurea* (Linn.) Britton.
- **linneana* Raf. l.c., *descr.* Illinois, Missouri=*Brauneria purpurea* (Linn.) Britton.
- **uniflora* Raf. l.c., *descr.* Carolina=*Brauneria purpurea* (Linn.) Britton.
- HELIOPHTHALMUM** Raf. Fl. Ludovic. 72. 1817, *descr.* (*Rudbeckia à feuilles de cigue* Rob. Voy. Louis. 3:447. 1807)=*Bidens* Linn.
- cicutifolium* Raf. op. cit. 73, *descr.* Louisiana=*Rudbeckia cicutifolia* Spreng.=? *Bidens aristosa* (Michx.) Britton var. *mutica* (A. Gray) Gattinger.
- HELIOPSIS** Pers.
- **lancifolia* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
- HELIOREOS** Raf. Atl. Jour. 1:145. 1832, *descr.*=*Pectis* Linn. *angustifolius* Raf.⁴⁶ l.c. (*Pectis angustifolia* Torr.). Central United States.
- #**HEMIMPHIA** Raf. Herb. Raf. 30. 1833, *descr.*, subgen. *Kuhnia* Linn. (Type *Kuhnia tuberosa* Raf.=*K. critonia* Ell.)=*Kuhnia* Linn.
- HIERACIUM** Linn.
- striatum* Raf. Am. Monthly Mag. Crit. Rev. 3:356. 1818, *nom.* Alleghany Mountains or Ohio.
- HINGSTONIA** Raf. Med. Repos. II. 5:352. 1808, *nom.*; Jour. Bot. (Paris) 2:171. 1809, *nom.*=*Verbesina* Linn.
- exaltata* Raf. l.c., *nom.* (*Siegesbeckia occidentalis* Linn.); A. Gray, Am. Jour. Sci. 40:228. 1841, *nom.* Eastern North America=*Verbesina occidentalis* (Linn.) Walt.
- HYMENOPAPPUS** L'Hérit.
- **corymbosus* Baldw. ex Raf. New Fl. N. Am. 4:72. 1836 [1838], *nom.* in syn. sub *Lomaxeta verrucosa* Raf. Georgia, Florida=*Polypteris integrifolia* Nutt.
- ISMARIA** Raf. Sylva Tellur. 117. 1838, *descr.* (*Rosalesia La Llave*, 1824)=*Brickellia* Ell. (1824), *nom. conserv.* (*Coleosanthus* Cass., 1817).
- glandulosa* Raf. l.c., *descr.* (*Rosalesia glandulosa* La Llave & Lex.). Mexico=*Brickellia cavanillesii* (Cass.) A. Gray (*B. squarrosa* Robinson).
- JACOBAEA** Adans.=*Senecio* Linn.
- balsamita* Raf. ex Jacks*. Ind. Kew. 1:1246. 1893 (*Jacoea balsamita* Raf.). Louisiana.
- **chrysanthemifolia* Raf. Chloris Aetn. 14, 15. 1815. *nom.* (*Senecio jacobaea* Linn.). Sicily.
- var. *lanceolata* Raf. op. cit. 15, *nom.*, *nota*.
- crassifolia* Raf. ex Jacks*. l.c. (*Jacoea crassifolia* Raf.). Central Atlantic United States.
- incana* Raf. ex Jacks*. l.c. (*Jacoea incana* Raf.). Central Atlantic United States.
- nebrodensis* Raf. ex Jacks*. l.c. (*Jacoea nebrodensis* Raf.). Sicily.
- opuntifolia* Raf. ex Jacks*. l.c. (*Jacoea opuntifolia* Raf.). Louisiana.
- verna* Raf. ex Jacks*. l.c. (*Jacoea verna* Raf.). Sicily.
- JACOBEEA** Thunb. (1801)=*Jacobaea* (Adans. 1763)=*Senecio* Linn.
- **alpina* Raf. Chloris Aetn. 11. 1815. *nom.*=*Jacobaea alpina* Moench=*Senecio alpinus* Scop. Sicily.
- **balsamita* Raf. Fl. Ludovic. 140. 1817, *nom.* (*Senecio lyratus* Michx.; *S. lobatus* Pers.; *S. balsamitae* Muhl. ex Willd.; *S. glabellus* Poir.); Herb. Raf. 39. 1833, *nom.* Louisiana to Missouri=*Senecio glabellus* Poir.
- **crassifolia* Raf. Med. Repos. II. 5:354. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- **cuneifolia* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
- **incana* Raf. Med. Repos. II. 5:354. 1808, *nom.* (err. "*incana*"); Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- **nebrodensis* Raf. Chloris Aetn. 6. 1815, *nom.* (*Senecio nebrodensis* Linn.). Sicily.
- **opuntifolia* Raf. Fl. Ludovic. 67. 1817, *descr.* (*Senecio radié à feuilles de raquette* Rob. Voy. Louis. 3:436. 1807). Louisiana.
- **verna* Raf. l.c., *nom.* (*Senecio vernus* Bivona). Sicily.
- **viscosa* Raf. Chloris Aetn. 11. 1815, *nom.*=*Jacobaea viscosa* Gilib.=*Senecio viscosus* Linn. Sicily.

⁴⁶ The only entry under *Helioreos* is "*St. angustifolius* R. Pectis T. 228," i.e. *Pectis angustifolia* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:214. 1827. It is suspected that originally Rafinesque reinstated the genus *Stammium* Willd., and then changed the generic name to *Helioreos* forgetting to change the "*St.*"; under the binomial; otherwise it is difficult to explain the abbreviation "*St.*" preceding the specific name. It was accepted in *Index Kewensis* 1:1119. 1893, as *Helioreos angustifolius* Raf.

- JALAMBICA** Raf. New Fl. N. Am. 4:71. 1836 [1838], *descr.*, non *Jalambicea* Cerv. (1825) = *Neurelmis* Raf. = ? *Pinillosia* Ossa (1836) vel ? *Koehneola* Urban (1901).
pumila Raf. op. cit. 72, *descr.* Cuba or Florida.
- KALIMARES** Raf. Fl. Tellur. 2:46. 1836 [1837], *descr.* = *Aster* Linn.
amellus Raf. ex Jacks*. Ind. Kew. 2:2. 1894 (*Aster amellus* Linn.). Europe, Asia.
- KERINGA** Raf. Sylva Tellur. 144. 1838, *descr.* = *Vernonia* Schreb. (1791), *nom. conserv.* (Behen Hill, 1762).
amagdylina Raf. l.c., *descr.* (*Vernonia amygdalina* Delile). Central Africa.
- KRIGIA** Schreb.
**dentata* Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
**graminifolia* Raf. op. cit. 67, *nom.* Cumberland Mountains.
**heterophylla* Raf. op. cit. 68, *nom.* Alleghany Mountains.
integrifolia Raf. New Fl. N. Am. 4:86. 1836 [1838], *descr.* Alleghany Mountains.
**lyrata* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.
**missurica* Raf. op. cit. 29, *nom. nov.* *Krigia dandelion* Nutt. North America = *Krigia dandelion* (Linn.) Nutt. (*Cynthia dandelion* DC.).
oppositifolia Raf. Fl. Ludovic. 57. 1817, *descr.* (*Anonyme* Rob. Voy. Louis. 3:329. 1807). Louisiana = *Serinia oppositifolia* O. Kuntze (*S. cespitosa* Raf.).
petiolaris Raf. New Fl. N. Am. 4:86. 1836 [1838], *descr.* Alabama.
**pubescens* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
- KUHNIA** Linn.; see Shinnars, *Wrightia* 1:122-144. 1946.
albicaulis Raf. New Fl. N. Am. 4:105. 1836 [1838], *nom. alt.* *Kuhnia virgata* Raf. Carolina to Florida = *K. eupatorioides* Linn.
altaica Raf. op. cit. 1:79. 1836, *descr.* (*Eupatorium alternifolium* Ard. Animad. 2:40. t. 20. 1764). "Siberia" [Eastern North America] = *praec.*
cinerea Raf. op. cit. 4:106. 1836 [1838], *descr.*; Aut. Bot. 11. 1840, *nom.* Mountains of eastern Kentucky and eastern Tennessee = *praec.*
†dasypia Raf. Herb. Raf. 30. 1833, *descr.* (*K. eupatorioides* sensu Ell.); New Fl. N. Am. 1:77, *nom.*, 79, *descr.*, 1836 (*K. eupatorioides* sensu Ell.). Georgia, Alabama = *praec.*
divaricata Raf. New Fl. N. Am. 4:105. 1836 [1838], *descr.* Appalachian Mountains = *praec.*
†elliptica Raf. Herb. Raf. 29. 1833, *descr.*; New Fl. N. Am. 1:76, *nom.*, *nota*, 79, *descr.*, 1836; Aut. Bot. 11. 1840, *nom.* Falls of the Cumberland River = *praec.*
var. montana Raf. New Fl. N. Am. 1:80. 1836, *nom.* (*K. glabra* Raf., *fide* Raf.). Alleghany Mountains (Monongahela River).
eupatorioides Linn.
var. angustifolia Raf. New Fl. N. Am. 1:79. 1836, *descr.* Pennsylvania (Schuylkill River).
corymbosa Raf. op. cit. 78, *descr.* Pennsylvania (Schuylkill River).
pyramidalis Raf. l.c., *descr.* Pennsylvania (Schuylkill River).
fulva Raf. op. cit. 76, *nom.*, *nota*, 80, *descr.*; op. cit. 4:105. 1836 [1838], *nom.* Ohio and eastern Kentucky = *K. media* Raf., *fide* Raf. l.c. = *praec.*
†glabra Raf. Herb. Raf. 29. 1833, *descr.*; New Fl. N. Am. 1:79. 1836, *nom.*, *nota*. Alleghany Mountains = *praec.*
glomerata Raf. New Fl. N. Am. 4:105. 1836 [1838], *descr.* Appalachian Mountains = *praec.*
latifolia Raf. l.c., *descr.* Florida = *praec.*
**lineana* Raf. Herb. Raf. 29. 1833, *nom. alt.* *Kuhnia glabra* Raf. Alleghany Mountains = *praec.*
†media Raf. Herb. Raf. 30. 1833, *descr.*; New Fl. N. Am. 1:76. 1836 (*K. fulva* Raf.); Aut. Bot. 11. 1840, *nom.* Alleghany Mountains = *praec.*
**paniculata* Raf. Herb. Raf. 30. 1833, *nom. alt.* *K. pubescens*, Raf. = *praec.*
pubescens Raf. Herb. Raf. 30. 1833, *descr.*; New Fl. N. Am. 1:80. 1836, *descr.*; op. cit. 4:105. 1836 [1838], *nom.* Alleghany Mountains = *praec.*
†tuberosa Raf. Herb. Raf. l.c., *descr.*; New Fl. N. Am. 1:77, *nom.*, *nota*, 80, *descr.*, 1836 (*Kuhnia critonia* sensu Ell.). Carolina = *praec.*
virgata Raf. New Fl. N. Am. 4:105. 1836 [1838], *descr.* Carolina and Florida = *praec.*
- LACTUCA** Linn.
angulata Raf. New Fl. N. Am. 4:83. 1836 [1838], *descr.* Pennsylvania to Kentucky.
axillaris Raf. l.c., *descr.* Alleghany Mountains.
fistulosa Raf. Fl. Ludovic. 58. 1817, *descr.* (*Laitue* 2 Rob. Voy. Louis. 3:425. 1807); Med. Fl. 2:234. 1830, *nom.* Louisiana.
**gigantea* Raf. Med. Fl. 2:234. 1830, *nom.*, *nota*. Eastern United States.
†maritima Raf. Herb. Raf. 69. 1833, *nom.*; New Fl. N. Am. 4:83. 1836 [1838], *descr.* Long Island to Virginia, seashores.
†ovatifolia Raf. l.c., *nom.*, *descr.* New Jersey, Pennsylvania.
†pilosa Raf. Herb. Raf. 65, 1833, *nom.*; New Fl. N. Am. l.c., *descr.* Appalachian Mountains of Virginia and Carolina.
- LAXANON** Raf. New Fl. N. Am. 2:16. 1836 [1837], *descr.*; op. cit. 4:87. 106. 1836 [1838], *nom.*, *nota*; Good Book 45. 1840, *nom.* = *Serinia* Raf. (1817) (*Apogon* Ell., 1824).
diversifolium Raf. op. cit. 46. *descr.* Arkansas = *Serinia oppositifolia* (Raf.) O. Kuntze.
heterophyllum Raf. op. cit. 4:106. 1836 [1838], *descr.* Arkansas = *praec.*
parviflorum Raf. op. cit. 2:16. 1836 [1837], *descr.* Alabama = *praec.*
- LEIACHENSIS** Raf. Fl. Tellur. 2:45. 1836 [1837], *descr.* = *Aster* Linn.
cordifolia Raf. ex Jacks*. Ind. Kew. 2:49. 1894 (*Aster cordifolius* Linn.). Eastern North America.
corymbosa Raf. ex Jacks*. l.c. (*Aster corymbosus* Ait.). Eastern North America = *Aster divaricatus* Linn.
dumosa Raf. ex Jacks*. l.c. (*Aster dumosus* Linn.). Eastern North America.
foliosa Raf. ex Jacks*. l.c. (*Aster foliosus* Pers.). Eastern North America = *Aster dumosus* Linn.
paludosa Raf. ex Jacks*. l.c. (*Aster paludosus* Ait.). Southeastern United States.
paniculata Raf. ex Jacks*. l.c. (*Aster paniculatus* Lam.). Southeastern United States = *Aster lamarckianus* Nees.
sparsiflora Raf. ex Jacks*. l.c. (*Aster sparsiflorus* Michx.). Eastern North America = *Aster dumosus* Linn.
- LEIOLIGO** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.* = *Solidago* Linn.
cesia Raf. l.c., *nom.* (*Solidago caesia* Linn.). Eastern North America.
corymbosa Raf. l.c., *nom.* (*Solidago corymbosa* Ell.). Southeastern United States (*Oligoneuron jacksonii* Small).
elata Raf. l.c., *nom.* (*Solidago elata* Pursh). Eastern North America = *S. sempervirens* Linn.
erecta Raf. l.c., *nom.* (*Solidago erecta* Pursh). Eastern North America.
lithospermifolia Raf. l.c., *nom.* (*Solidago lithospermifolia* Willd.). Eastern North America = *S. sempervirens* Linn.
petiolaris Raf. l.c., *nom.* (*Solidago petiolaris* Ait.). Eastern North America.
pulverulenta Raf. l.c., *nom.* (*Solidago pulverulenta* Nutt.). Southeastern United States.
pyramidata Raf. l.c., *nom.* (*Solidago pyramidata* Pursh). Eastern North America = *S. fistulosa* Mill.
rigida Raf. l.c., *nom.* (*Solidago rigida* Linn.). Eastern North America.
salicina Raf. l.c., *nom.* (*Solidago salicina* Ell.). Southeastern United States.
speciosa Raf. l.c., *nom.* (*Solidago speciosa* Nutt.). Eastern North America.
- LEONTODON** Linn.
taraxacum Linn. Europe, North America = *Taraxacum officinale* Weber.
var. laciniatus Raf. Med. Fl. 2:19. 1830, *nom.*; Casket 1832:139. 1832, *nom.*; Sat. Eve. Post 11(556): [4]. 1832, *nom.*
lanceolatus Raf. l.c., *nom.*
longifolius Raf. l.c., *nom.*
polyphyllus Raf. l.c., *nom.*
sinuatus Raf. l.c., *nom.*
uniflorus Raf. l.c., *nom.*
- LEPACHIS** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.* (non Raf. op. cit. 207) = *Echinacea* Moench (1794) = *Brauneria* Neck (1790).
purpurea Raf. ex Jacks*. Ind. Kew. 2:54. 1894 (*Rudbeckia purpurea* Linn.). North America = *Echinacea purpurea* (Linn.) Moench = *Brauneria purpurea* (Linn.) Britton.

- LEPACHYS** Raf. Am. Monthly Mag. Crit. Rev. 4:207. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 239. 1820, *descr.* [*Obelistecca* Raf. 1817], non Raf. op. cit. 195=*Ratibida* Raf. (1817). *pinnatifida* Raf. Jour. Phys. Chim. Hist. Nat. l.c., *nom.* (*Rudbeckia pinnata* Vent.). Eastern North America=*Ratibida pinnata* (Vent.) Barnh. (*Lepachys pinnata* Torr. & Gray).
- LEPIACTIS** Raf. Fl. Tellur. 2:43. 1836 [1837], *descr.*, non Raf. op. cit. 4:109. 1836 [1838]=*Solidago* Linn. *virgata* Raf. l.c., *nom.* (*Solidago virgata* Michx.). North America=*Solidago stricta* Ait.=*S. petiolata* Mill.
- #LEPTILIUM** Raf. Fl. Tellur. 2:50. 1836 [1837], *descr.*, subgen. *Diplemium* Raf.=*Erigeron* Linn. **paniculatum* Raf. op. cit. 51, *nom.* (*Erigeron strigosus* sensu Ell.). South Carolina=*Erigeron strigosus* Muhl.
- LEPTILON** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*=*Erigeron* Linn. *divaricatus* Raf. ex Jacks*. Ind. Kew. 2:61. 1894 (*Erigeron divaricatus* Michx.). Central Western United States.
- *LEPTOGYNA** Raf. Sylva Tellur. 2:49. 1836 [1837], *nom.* sub *Brephocton* Raf. [*Conyza* Linn., subgen. *Leptogyne* Ell. Sketch Bot. S. Carol. Georgia 2:322. 1823]=*Pluchea* Cass. (1817).
- *LEPTOPEDA** Raf. Cincinnati Lit. Gaz. 2:28. 1824, *nom.*, *sphalm.*=*Leptopoda* Nutt. (1818)=*Helenium* Linn.
- LEPTOPHORA** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom. nov.* *Leptopoda* Nutt.; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.* (*Leptopoda* Nutt.)=*Helenium* Linn.
- LEPTOPODA** Nutt.=*Helenium* Linn. *floridana* Raf. Atl. Jour. 1:147. 1832, *descr.* Florida.
- #LEUCALIS** Raf. Fl. Tellur. 2:46. 1836 [1837], *descr.*, subgen. *Diplopappus* Cass.=*Aster* Linn.
- LEUCANTHEMUM** Linn.=*Chrysanthemum* Linn. **nudicaule* Raf. Herb. Raf. 67. 1833, *nom.* Cumberland Mountains.
- LIATRIS** Schreb. *amplexicaulis* Raf. New Fl. N. Am. 4:76. 1836 [1838], *descr.* Georgia, Florida=*Trilisa odoratissima* (Walt.) Cass. **bracteolata* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains. *botrys* Raf. New Fl. N. Am. 4:76. 1836 [1838], *descr.* Georgia, Florida. **lanceolata* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains. *linaria* Raf. Fl. Ludovic. 61. 1817, *descr.* (*Cynarocephale éléganté sans épines* Rob. Voy. Louis. 3:429. 1807). Louisiana=*Liatris pycnostachya* Michx. **rigida* Raf. New Fl. N. Am. 4:76. 1836 [1838], *nom. nota* [North America]. *†uniflora* Raf. Herb. Raf. 63. 1833, *nom.*; New Fl. N. Am. 4:76. 1836 [1838], *descr.* Kentucky to Alabama=*L. squarrosa* (Linn.) Willd., var.
- LIMBARDA** Adans.=*Inula* Linn. *arabica* Raf. ex Jacks*. Ind. Kew. 2:83. 1894 (*Inula arabica* Linn.). Arabia=*Pulicaria arabica* (Linn.) Cass. *crithmifolia* Raf. ex Jacks*. l.c. (*Inula crithmifolia* Linn.). Europe. *japonica* Raf. ex Jacks*. l.c. (*Inula japonica* Thunb.). Japan. *pinifolia* Raf. ex Jacks*. l.c. (*Inula pinifolia* Linn.). South Africa=*Senecio pinifolius* (Linn.) Lam.
- #LINIQUE** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.*, subgen. *Leiologo* Raf.=*Solidago* Linn.
- LOMAXETA** Raf. New Fl. N. Am. 4:72. 1836 [1838], *nom. nov.* *Polypteris* Nutt. (1818). *verrucosa* Raf. l.c., *nom.*, *nota* (*Hymenopappus corymbosus* Baldw.; *Polypteris integrifolia* Nutt.); Aut. Bot. 21. 1840, *nom.* Georgia, Florida=*Polypteris integrifolia* Nutt.
- LOPHACTIS** Raf. Cincinnati Lit. Gaz. 2:28. 1824, *descr.*; Atl. Jour. 1:152. 1832, *descr.*=*Coreopsis* Linn. *uniflora* Raf. l.c., *descr.*; First Cat. Bot. Gard. Transylv. Univ. 14. 1824, *nom.* Kentucky, Indiana, Illinois.
- *LOREOPSIS** Raf. Cincinnati Lit. Gaz. 2:28. 1824, *nom.* sub *Lophactis uniflora* Raf., *sphalm.*=*Coreopsis* Linn.
- *LUPATORIUM** Raf. Western Rev. Miscel. Mag. 1:93. 1819, *nom.*, *sphalm.*=*Eupatorium* Linn. **calutinum* Raf. l.c., *nom.*, *sphalm.* [*Eupatorium coelestinum* Linn.]. Kentucky=*Eupatorium coelestinum* Linn.
- MARSHALLIA** Schreb. *bulbosa* Raf. Fl. Ludovic. 61. 1817, *descr.* (*Sarrette bulbeuse* Rob. Voy. Louis. 3:430. 1807). Louisiana.
- *cyananthera* Raf. New Fl. N. Am. 4:78. 1836 [1838], *nom.*, sub *M. tenuifolia* Raf. North America.
- pumila* Raf. l.c., *nom.* sub *Marshallia tenuifolia* Raf. (*Therolepta pumila* Raf.). North America.
- spiralis* Raf. op. cit. 77, *descr.*; Aut. Bot. 21. 1840, *nom.* Arkansas and western Louisiana.
- tenuifolia* Raf. l.c., *descr.*, *nom.* Seashores of Georgia and Florida.
- #MEGACTELIS** Raf. New Fl. N. Am. 1:61. 1836, *descr.*, subgen. *Actimeris* Raf.=*Actinomeris* Nutt. (1818), *nom. conserv.* (Ridan Adans., 1763).
- #MERISIS** Raf. Fl. Tellur. 2:45. 1836 [1837], *descr.*, subgen. *Leiachenis* Raf. (Type *Aster cordifolius* Linn.)=*Aster* Linn.
- MESADENIA** Raf. Loud. Gard. Mag. 8:247. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit. Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900; New Fl. N. Am. 4:78. 1836 [1838], *descr.*=*Senecio* Linn. *atriplicifolia* Raf. New Fl. N. Am. 4:79. 1836 [1838], *nom.* (*Cacalia atriplicifolia* Linn.). Eastern North America=*Senecio atriplicifolius* (Linn.) Hook.
- *cuneata* Raf. l.c., *nom.* Hab.?
- dentata* Raf. l.c., *descr.* Alabama.
- lanceolata* Raf. l.c., *nom.* (*Cacalia lanceolata* Nutt.). Southeastern United States=*Senecio boschianus* Schultz-Bip.
- oblonga* Raf. ex Jacks*. Ind. Kew. 2:214. 1894, *sphalm.*=seq.
- *oblongata* Raf. New Fl. N. Am. 4:79. 1836 [1838], *nom.* North America.
- ovata* Raf. l.c., *nom.* (*Cacalia ovata* Walt.). Southeastern United States=*Senecio walteri* Schultz-Bip.
- paniculata* Raf. ex Jacks*. Ind. Kew. 2:214. 1894 (*Cacalia paniculata* Raf.). North America.
- plantaginea* Raf. New Fl. N. Am. 4:79. 1836 [1838], *nom.* (*Cacalia tuberosa* Nutt.). Central United States=*Cacalia tuberosa* Nutt. (*Senecio nuttallii* Schultz-Bip.).
- pteranthes* Raf. ex Jacks*. Ind. Kew. 2:214. 1894 (*Cacalia pteranthes* Raf.). North America=*Cacalia tuberosa* Nutt.
- pulverulenta* Raf. New Fl. N. Am. 4:79. 1836 [1838], *descr.* Delaware.
- *quinquefida* Raf. l.c., *nom.* North America.
- reniformis* Raf. l.c., *nom.* [*Cacalia reniformis* Muhl.]. Eastern North America=*Senecio muhlenbergii* Schultz-Bip.=*Cacalia muhlenbergii* (Schultz-Bip.) Fernald, Rhodora 40: 356. 1938.
- rotundifolia* Raf. l.c., *descr.* Musketong and Mahantango Mountains of the Alleghanies (*Cacalia rotundifolia* House, 1921, non Willd., 1804); see Fernald, l.c.
- MESODETRA** Raf. Fl. Ludovic. 141. 1817, *nom.*, *nota*=*Helenium* Linn. *alata* Raf. l.c., *nom.*, *nota* (*Rudbeckia alata* Jacq.; *Helenium quadridentatum* Labill.). Louisiana=*Helenium quadridentatum* Labill.
- MESOLIGUS** Raf. Fl. Tellur. 2:44. 1836 [1837], *descr.*=*Aster* Linn. *subulatus* Raf. l.c., *nom.* (*Aster subulatus* Michx.). Eastern North America.
- *MICTANTHES** Raf. New Fl. N. Am. 1:17. 1836, *nom.*, *nota*=*Myctanthes* Raf. (1837)=? *Aster* Linn.
- MIKANIA** Willd. (1804), *nom. conserv.* (*Willughbaya* Neck., 1790; *Carelia* Cav., 1802).
- angulosa* Raf. Fl. Ludovic. 62. 1817, *descr.* (*Cacalia* 4 Rob. Voy. Louis. 3:433. 1807). Louisiana=*M. scandens* (Linn.) Willd.
- MNESITEON** Raf. Fl. Ludovic. 67. 1817, *descr.*; Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.*=*Eclipta* Linn. *album* Raf. Fl. Ludovic. 68. 1817. *descr.* (*Calendula* 1 Rob. Voy. Louis. 3:439. 1807). Louisiana=*Eclipta alba* (Linn.) Hassk. var. *pumilum* Raf. l.c., *descr.* (*Calendula* 2 Rob. l.c.). Louisiana=*Eclipta alba* (Linn.) Hassk. *luteum* Raf. l.c., *descr.* (*Calendula* 3 Rob. l.c.). Louisiana.
- *pumilum* Raf. l.c., *nom. alt.* *Mnesiteon album* Raf. var. *pumilum* Raf.=*Eclipta alba* (Linn.) Hassk.
- MUSTERON** Raf. Fl. Tellur. 2:50. 1836 [1837], *descr.*=*Erigeron* Linn. *bellidifolium* Raf. l.c., *nom.* (*Erigeron bellidifolius* Muhl.). North America. *glabrum* Raf. l.c., *nom.* Boreal and Arctic regions. *pulchellum* Raf. l.c., *nom.* (*Erigeron pulchellus* Michx.). Eastern North America. *uniflorum* Raf. l.c., *nom.* (*Erigeron uniflorus* Linn.). Boreal and Arctic regions.

- MYCTANTHES** Raf. New Fl. N. Am. 2:22. 1836 [1837], *descr.*; op. cit. 4:68. 1836 [1838], *nom.*; Good Book 45. 1840, *nom.*=*Aster* Linn.
- axillaris** Raf. l.c., *descr.*; Aut. Bot. 20. 1840, *nom.* Alleghany Mountains.
- latifolia** Raf. ll.cc., *descr.*, *nom.* Alleghany Mountains.
- punicea** Raf. ll.cc., *descr.*, *nom.* Pennsylvania (Philadelphia) = *Aster puniceus* Linn.
- NARBALIA** Raf. New Fl. N. Am. 4:84. 1836 [1838], *nom.*=*Prenanthes* Linn.
- ***crepidinea** Raf. Aut. Bot. 21. 1840, *nom.* sub *Opicrina latifolia* Raf. [*Opicrina crepidinea* Raf.]. Eastern North America = *Prenanthes crepidinea* Michx.
- latifolia** Raf. New Fl. N. Am. l.c., *descr.* Alleghany Mountains = *Prenanthes altissima* Linn.
- NEACTELIS** Raf. New Fl. N. Am. 4:69. 1836 [1838], *descr.*; Good Book 46. 1840, *nom.*=*Helianthus* Linn.
- strigosa** Raf. l.c., *descr.*; Aut. Bot. 21. 1840, *nom.* Florida.
- NEURELMIS** Raf. New Fl. N. Am. 4:72. 1836 [1838], *nom. alt.*
- Jalambica** Raf.=? *Pinillosia* Ossa (1836), vel *Koehneola* Urban (1901).
- pumila** Raf. l.c., *nom. alt.* *Jalambica pumila* Raf.; Aut. Bot. 21. 1840, *nom.*, *nota.* Cuba or Florida.
- ***OBELISTECA** Raf. Fl. Ludovic. 73. 1817, *nom.*, *nota.*; Ann. Nat. Ann. Synop. 14. 1820, *nom.* [*Obeliscothea* Vail.] (Type *Rudbeckia pinnata* Vent.) = *Lepachys* Raf. (1819) = *Ratibida* Raf. (1817).
- OCHRONELIS** Raf. Atl. Jour. 1:153. 1832, *descr.*=*Helianthus* Linn.
- sulfurea** Raf. l.c., *descr.* Alleghany Mountains = *Helianthus giganteus* Linn.
- var. **multiflora** Raf. l.c., *nom.*
- var. **pauciflora** Raf. l.c., *nom.*
- var. **ternifolia** Raf. l.c., *nom.*
- var. **uniflora** Raf. l.c., *nom.*
- OCNERON** Raf. Fl. Tellur. 4:120. 1836 [1838], *descr.*=*Rolandra* Rottb. (1775).
- aquifolium** Raf. l.c., *descr.* (*Staelina* "do Sm."; [*Echinops foliis lanceolatis*] Plum. Pl. Am. 114. t. 123. 1756). West Indies = *Rolandra fruticosa* (Linn.) O. Kuntze (*R. argentea* Rottb.).
- cordatum** Raf. l.c., *descr.* [*Staelina ilicifolia* Linn. f.]. Colombia = *Gynoxys ilicifolia* (Linn. f.) Wedd.
- ODOGLOSSA** Raf. New Fl. N. Am. 2:15. 1836 [1837], *descr.*=*Coreopsis* Linn.
- heterophylla** Raf. op. cit. 16. *descr.*; Good Book 45. 1840, *nom.* Western Tennessee, Georgia, Alabama = *Coreopsis grandiflora* Hogg ex Sweet, Brit. Fl. Gard. 2: t. 175. 1821.
- OLIGACTIS** Raf. Fl. Tellur. 2:44. 1836 [1837], *descr.*, *non* Cass. (1825) = *Sericocarpus* Nees (1833).
- conyzoides** Raf. l.c., *nom.* [*Aster conyzoides* Willd.]. North America = *Sericocarpus asteroides* (Linn.) Britton, Sterns & Poggenb.
- linifolia** Raf. l.c., *nom.* [*Aster linifolius* Linn.]. North America = *Sericocarpus linifolius* (Linn.) Britton, Sterns & Poggenb.
- tortifolia** Raf. l.c., *nom.* [*Aster tortifolius* Michx.]. North America = *Sericocarpus tortifolius* (Michx.) Nees.
- #**OLIGLOSIS** Raf. New Fl. N. Am. 1:61. 1836, *descr.*, subgen. *Actimeris* Raf. = *Actinomeris* Nutt. (1818), *nom. conserv.* (*Ridan* Adans., 1763).
- ONOPIX** Raf. Fl. Ludovic. 59. 1817, *descr.*=*Cirsium* Adans. (1763).
- intybaceus** Raf. op. cit. 60, *descr.* (*Charon à feuilles de chicorée* Rob. Voy. Louis. 3:428. 1807). Louisiana.
- sericeus** Raf. l.c., *descr.* (*Atractylis* Rob. op. cit. 427); Med. Fl. 2:247. 1830, *nom.* Louisiana.
- ***OPHIOSERIS** Raf. New Fl. N. Am. 4:87. 1836 [1838], *nom. nov. provis.* sub *Krigia integrifolia* Raf. = *Hieracium* Linn.
- OPICRINA** Raf. New Fl. N. Am. 4:85. 1836 [1838], *descr.*=*Prenanthes* Linn.
- angustifolia** Raf. l.c., *nom. alt.* *O. crepidinea* Raf. = *Prenanthes crepidinea* Michx. Eastern North America.
- crepidinea** Raf. l.c., *descr.* [*Prenanthes crepidinea* Michx.]. Eastern North America.
- latifolia** Raf. l.c., *descr.* (*Prenanthes opicrina* Raf.); Aut. Bot. 21. 1840, *nom.*, *nota.* Kentucky = *Prenanthes crepidinea* Michx.
- ORESTION** Raf. Fl. Tellur. 2:48. 1836 [1837], *descr.*=*Olearia* Moench (1802), *nom. conserv.* (*Shawia* J. R. & G. Forst., 1776).
- dentata** Raf. l.c., *nom.* (*Aster dentatus* Andr. Bot. Repos. 1: t. 61. 1799; *A. tomentosus* Schrad.). Australia = *Olearia dentata* (Andr.) Moench.
- #**OSMILIS** Raf. New Fl. N. Am. 4:75. 1836 [1838], *descr.*, subgen. *Liatris* Schreb. (1791).
- OTHAKE** Raf. New Fl. N. Am. 4:73. 1836 [1838], *descr.*
- longifolium** Raf. op. cit. 74, *descr.*; Aut. Bot. 12. 1840, *nom.* Arkansas.
- tenuifolium** Raf. ll.cc., *descr.*, *nom.* (*Stevia callosa* Nutt.). Arkansas = *Othake callosus* (Nutt.) Bush; see Ammerman, Ann. Missouri Bot. Gard. 31:253-263. 1944.
- PALEISTA** Raf. New Fl. N. Am. 2:40, *nom.* 43, *descr.*, 1836 [1837]; Good Book 45. 1840, *nom.*=*Eclipta* Linn. (1771), *nom. conserv.* (*Eupatorioccephalacron* Adans., 1763).
- brachypoda** Raf. op. cit. 43, *descr.* (*Eclipta brachypoda* Michx.; *Amellus carolinianus* Walt.). Carolina = *Eclipta alba* (Linn.) Hassk.
- procumbens** Raf. l.c., *descr.* (*Eclipta procumbens* sensu Ell.). Carolina to Florida = *Eclipta alba* (Linn.) Hassk.
- PANIOPSIS** Raf. Fl. Tellur. 2:49. 1836 [1837], *descr.*=*Inula* Linn.
- foetidum** Raf. ex Jacks*. Ind. Kew. 2:420. 1894 (*Erigeron foetidus* Linn.). South Africa = *Nidorella foetida* (Linn.) DC.
- glutinosus** Raf. ex Jacks*. l.c. (*Erigeron glutinosus* Linn.). Mediterranean region = *Inula glutinosa* (Linn.) Ait.
- graveolens** Raf. ex Jacks*. l.c. (*Erigeron graveolens* Linn.). Mediterranean region = *Inula graveolens* (Linn.) Desf.
- viscosus** Raf. ex Jacks*. l.c. (*Erigeron viscosus* Linn.). Mediterranean region = *Inula viscosa* (Linn.) Ait.
- PAPPOCHROMA** Raf. Fl. Tellur. 2:48. 1836 [1837], *descr.*=*Erigeron* Linn.
- uniflora** Raf. l.c., *nom.* (*Erigeron pappochroma* Labill.). Australia = *Erigeron pappochroma* Labill.
- PARTHENIUM** Linn.
- †**amplectens** Raf. Herb. Raf. 62. 1833, *nom.*; New Fl. N. Am. 2:26. 1836 [1837], *descr.* (*Parthenium integrifolium* Linn.). Kentucky = *Parthenium integrifolium* Linn.
- †**angustifolium** Raf. Herb. Raf. l.c., *nom.*; op. cit. 25, *descr.* Western Kentucky.
- dillenianum** Raf. New Fl. N. Am. 2:26. 1836 [1837], *nom. nov. provis.* *P. integrifolium* Linn. sub *P. amplectens* Raf. Virginia = *Parthenium integrifolium* Linn.
- elliottanum** Raf. l.c., *descr.* [*Parthenium integrifolium* sensu Ell.]. South Carolina = *Parthenium integrifolium* Linn.
- hispidum** Raf. op. cit. 35, *descr.* Arkansas, Texas. (*P. repens* Eggert, 1891). Missouri to Kansas and Texas.
- ***pratense** Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- †**pumilum** Raf. Herb. Raf. 65. 1833, *nom.*; New Fl. N. Am. 2:25. 1836 [1837], *descr.* Wasio to or Cumberland Mountains.
- †**sinuatum** Raf. ll.cc., *nom.*, *descr.* Appalachian Mountains of Virginia.
- PERAMIBUS** Raf. Ann. Nat. Ann. Synop. 14. 1820, *descr.*=*Rudbeckia* Linn.
- acutus** Raf. ex Jacks*. Ind. Kew. 2:468. 1894 (*Coreopsis acuta* Pursh). Georgia = *Actinomeris alternifolia* (Linn.) DC. (*A. squarrosa* Nutt.; *Ridan alternifolia* Britton).
- hirtus** Raf. Ann. Nat. Ann. Synop. 15. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 61. 1833, *nom.* Kentucky = *Rudbeckia triloba* Linn.
- scaber** Raf. ex Jacks*. Ind. Kew. 2:468. 1894 (*Coreopsis scabra* Raf.). Louisiana.
- PERITRIS** Raf. New Fl. N. Am. 2:23. 1836 [1837], *descr.*; Good Book 45. 1840, *nom.*=*Arnica* Linn.
- ovatifolia** Raf. l.c., *descr.* Florida or Alabama = ? *Arnica acaulis* (Walt.) Britton, Sterns & Poggenb.
- ***PERSONIA** Raf. Med. Repos. II. 5:353. 1808, *nom.*=*Persoonia* Michx. (1803), *non* Sm. (1798) = *Marshallia* Schreb. (1791).
- ***PHAETHUSIA** Raf. Am. Monthly Mag. Crit. Rev. 4:195. 1819, *nom.*, *nota.*; Jour. Phys. Chim. Hist. Nat. 89:260. 1819, *nom.*, *nota.*=*Phaethusa* Gaertn.=*Verbesina* Linn.
- PLETRECIA** Raf. Fl. Tellur. 4:119. 1836 [1838], *descr.*=*Vernonia* Schreb. (1791), *nom. conserv.* (*Behen* Hill, 1762).
- corymbosa** Raf. op. cit. 120, *descr.* (*Staelina corymbosa* Thunb.). South Africa = *Vernonia corymbosa* (Thunb.) Less.
- #**PLEIACILA** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.*, subgen. *Solidago* Linn. (Type *Solidago flexicaulis* Linn.).

- ***POLATHERA** Raf. Am. Monthly Mag. Crit. Rev. 4:188. 1819, *nom.*=seq.
- POLATHERUS** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*=*Gaillardia* Foug. (1788).
- scaber Raf. l.c., *nom.* (*Gaillardia aristata* Pursh). Rocky Mountains=*Gaillardia aristata* Pursh.
- POLYMNIA** Linn.
- macrophylla Raf. Fl. Ludovic. 70. 1817, *descr.* (*Polymnia* Rob. Voy. Louis. 3:441. 1807). Louisiana=*P. udevalia* Linn.
- PRENANTHES** Linn.
- gigantea Raf. Cincinnati Lit. Gaz. 2:10. 1824, *nom. nov. provis.* *Prenanthes opicrina* Raf. Kentucky. Ex *descr.*=*P. crepidinea* Michx.
- glauca Raf. Fl. Ludovic. 57. 1817, *descr.* (*Chicorée uselle du pays* Rob. Voy. Louis. 3:424. 1807). Louisiana=*P. serpentaria* Pursh.
- *humilis Raf. Med. Repos. II. 5:353. 1808, *nom.*; Jour. Bot. (Paris) 2:173. 1809, *nom.* Central Atlantic United States.
- *illinoensis Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*
- *lanceolata Raf. Illinois l.c., *nom.* Kentucky.
- ochroleuca Raf. Cincinnati Lit. Gaz. 2:10. 1824, *nom. nov. provis.* *P. opicrina* Raf. Kentucky=*P. crepidinea* Michx.
- opicrina Raf. l.c., *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Med. Fl. 1:52. 1828, *nom.*, iter. Man. Med. Bot. 52. 1841; Med. Fl. 2:253. 1830, *nom.*, *nota*. Kentucky=*P. crepidinea* Michx.
- *parthenoides Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- rubida Raf. Atl. Jour. 1:17. 1832, *descr.* Cumberland Mountains and eastern Kentucky.
- *shortiana Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- spicata Raf. Atl. Jour. 1:150. 1832, *descr.* Illinois and Ohio=*P. aspera* Michx.
- #**PSUKELIS** Raf. Fl. Tellur. 2:45. 1836 [1837], *descr.*, subgen. *Leiachenis* Raf. (Type *Aster paludosus* Ait.)=*Aster* Linn.
- ***PTERNIX** Raf. Am. Monthly Mag. Crit. Rev. 1:439. 1817, *descr.*; Fl. Ludovic. 59. 1817, *nom.*, non Hill, 1762=*Silybum* Adans., 1763; Gaertn., 1791, *nom. conserv.* (*Mariana* Hill, 1762).
- cynaroides Raf. l.c., *nom.* Sicily=*Silybum marianum* (Linn.) Gaertn.
- PTILEPIDA** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom. nov.* *Actinella* Pers. (1807); op. cit. 4:189. 1819, *nom.*; Jour. Phys. Chim. Hist. Nat. 89:261. 1819, *nom.* (*Actinea* Juss.); New Fl. N. Am. 1:60. 1836, *nom.* (*Actinea* Juss.); Herb. Raf. 39. 1833=*Actinea* Juss. (1803) (*Tetranneuris* Greene, 1898).
- *acaulis Raf. Herb. Raf. 39. 1833, *nom.* (*Gaillardia* [*Gaillardia*] *acaulis* Pursh)=*Actinea acaulis* (Pursh) Spreng. (*Tetranneuris acaulis* Greene). Upper Missouri (Mandan country) =Dakota.
- PTILERIS** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.* (*Senecio hieracifolius* Linn.); op. cit. 4:195. 1819, *nom.*, subgen. *Senecio* Linn.=*Erechtites* Raf. (1817).
- hieracifolia Raf. ex Jacks*. Ind. Kew. 2:657. 1895 (*Senecio hieracifolius* Linn.). Eastern North America=*Erechtites hieracifolia* (Linn.) Raf.
- PTILORIA** Raf. Atl. Jour. 1:145. 1832, *descr.*; New Fl. N. Am. 4:85. 1836 [1838], *nom.*, *nota*=*Stephanomeria* Nutt. (1841), *nom. conserv.* (*Ptiloria* Raf., 1832).
- pauciflora Raf. l.c., *nom.* (*Prenanthes pauciflora* Torr.). Rocky Mountains=*Stephanomeria pauciflora* (Torr.) A. Nels.
- tenuifolia Raf. l.c., *nom.* (*Prenanthes tenuifolia* Torr.). Rocky Mountains=*Stephanomeria tenuifolia* (Torr.) H. M. Hall.
- PULICARIA** Gaertn.
- fetida Raf. ex Jacks*. Ind. Kew. 2:660. 1895 (*Inula foetida* Linn.)=*Nidorella foetida* (Linn.) DC. South Africa.
- indica Raf. ex Jacks*. l.c. (*Inula indica* Linn.)=*Vicoa indica* (Linn.) DC. (*V. auriculata* Cass.). India.
- †**RATIBIDA** Raf. Fl. Ludovic. 73. 1817, *nom.*, *nota* (*Rudbeckia columnaris* Sims 1814, Pursh 1814); Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*, *nota*; op. cit. 4:189, 195. 1819, *nom.*, *nota*; Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *descr.*; Isis von Oken 1: Lit. Anz. 239. 1820, *descr.* (*Lepachys* Raf., 1819); see Sharp, Ann. Missouri Bot. Gard. 22:66-80. 1935; Fernald, Rhodora 40:353-356. 1938.
- sulcata Raf. Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *nom.* (*Rudbeckia columnaris* Sims 1814, Pursh 1814); Isis von Oken l.c., *nom.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 40. 1833, *nom.* Central United States=*R. columnifera* (Nutt.) Wooton & Standley.
- #**RHODILIS** Raf. New Fl. N. Am. 4:75. 1836 [1838], *descr.*, subgen. *Liatris* Schreb. (1791).
- #**RIGIDILIS** Raf. New Fl. N. Am. 4:76. 1836 [1838], sub *Liatris uniflora* Raf., *nom. nov. provis.*, subgen. *Liatris* Schreb.
- ROCCARDIA** Raf. Fl. Tellur. 4:119. 1836 [1838], *descr.*, non Neck. (1790)=*Stachelina* Linn.
- purpurea Raf. Fl. Tellur. 4:119. 1836 [1838], *descr.* (*Stachelina dubia* Linn.). Spain, Italy.
- ROTHIA** Schreb.=*Andryala* Linn.
- *integrifolia Raf. Aut. Bot. 46. 1840, *nom. nov.* *R. andryaloides* Gaertn. Spain=*Andryala rothia* Pers.
- RUDBECKIA** Linn.
- †angulata Raf. Atl. Jour. 1:148. 1832, *descr.* Florida.
- *discolor Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 67. 1833, *nom.* Cumberland Mountains. An *R. discolor* Pursh?
- *grandiflora Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.* Kentucky.
- var. alba Raf. l.c., *nom.*
- rubra Raf. l.c., *nom.*
- *heterophylla Raf. Herb. Raf. 66. 1833, *nom.* Appalachian Mountains.
- *purpurea Raf. op. cit. 40. 1833, *nom.* Upper Missouri (Mandan country)=Dakota.
- *spatulata Raf. op. cit. 67, *nom.* Cumberland Mountains. An *R. spatulata* Michx.?
- *trinervata Raf. op. cit. 80. 1833, *nom.* Alabama or Florida.
- ***SARCHETA** Raf. Atl. Jour. 1:163. 1832, *nom.* sub *Cauloma* Raf. Quid?
- #**SCARIOLOA** Raf. New Fl. N. Am. 4:75. 1836 [1838], *descr.*, subgen. *Liatris* Schreb., non *Scariola* F. Schmidt (1795)=*Liatris* Schreb. (1791).
- SENECIO** Linn.
- hieracifolius Linn. var. giganteus Raf. Med. Fl. 2:262. 1830, *descr.* Eastern North America=*Erechtites hieracifolia* (Linn.) Raf.
- SERINIA** Raf. Fl. Ludovic. 57. 1817, *nom. nov. provis.*; op. cit. 149, *nom.* (*Apogon* Ell., 1824).
- cespitosa Raf. op. cit. 149, *nom. nov.* *Krigia oppositifolia* Raf. (*Anonyme* Rob. Voy. Louis. 3:329. 1807). Louisiana=*Serinia oppositifolia* (Raf.) O. Kuntze.
- SILPHIUM** Linn.
- *falcatum Raf. Herb. Raf. 63. 1833, *nom.* Kentucky or Illinois.
- *glaucum Raf. First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 63. 1833, *nom.* Kentucky.
- *ovatum Raf. First Cat. l.c., *nom.*; Herb. Raf. 65. 1833, *nom.* Kentucky, Appalachian Mountains.
- peristenium Raf. Atl. Jour. 1:146. 1832, *nom.* (*Silphium* "n. sp. Nutt. mss.," Torr. Ann. Lyc. Nat. Hist. N. Y. 2:215. 1827). Red River, Arkansas=*S. laciniatum* Linn.
- †reniforme Raf. Med. Fl. 2:263. 1830, *nom.*; ex Nutt. Trans. Am. Philos. Soc. II. 7:342. 1841, *descr.* Virginia and North Carolina=*S. compositum* Michx., var. *reniforme* (Raf.) Torr. & Gray.
- reticulatum Raf. Atl. Jour. 1:148. 1832, *descr.* Florida=*Berlandiera subacaulis* Nutt. (1822).
- trachopus Raf. op. cit. 178. 1833, *descr.*; Herb. Raf. 24. 1833, *descr.* Texas.
- *undulatum Raf. Med. Fl. 2:263. 1830, *nom.* Hab.?
- SITILIAS** Raf. New Fl. N. Am. 4:85. 1836 [1838], *descr.*=*Pyrrhopappus* DC. (1838), *nom. conserv.* (*Sitilias* Raf., 1838).
- caroliniana Raf. l.c., *nom.*, *nota* (*Barkhausia caroliniana* Nutt.). Alabama=*Pyrrhopappus carolinianus* (Walt.) DC.
- SOLIDAGO** Linn.
- *cordifolia Raf. Herb. Raf. 63. 1833, *nom.* alt. *Solidago sphacelata* Raf. Kentucky, Virginia=*Brachychaeta sphacelata* (Raf.) Britton.
- grandiflora Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:226. 1809, *descr.* Pennsylvania. (*Oligoneuron grandiflorus* (Raf.) Small, Man. Southeast. Fl. 1361. 1933)=*Solidago rigida* Linn.
- parviflora Raf. Ann. Nat. Ann. Synop. 14. 1820, *nom.* sub *Solidago rupestris* Raf. Kentucky=*S. rupestris* Raf.

SOLIDAGO (*continued*).

- pauciflora* Raf. Med. Repos. II. 5:359. 1808, *descr.*; Jour. Bot. (Paris) 1:226. 1809, *descr.* New Jersey, Delaware.
- rupestris* Raf. Ann. Nat. Ann. Synop. 14. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 63. 1833, *nom.* Kentucky.
- sphacelata* Raf. Ann. Nat. Ann. Synop. 14. 1820, *descr.*; First Cat. Bot. Gard. Transylv. Univ. 15. 1824, *nom.*; Herb. Raf. 63. 1833, *nom.* Kentucky, Virginia=*Brachychaeta sphacelata* (Raf.) Britton. (*B. cordata* Torr. & Gray).
- SONCHUS** Linn.
- **umbellatus* Raf. Herb. Raf. 68. 1833, *nom.* Alleghany Mountains.
- #**SQUAREOLARIA** Raf. Fl. Tellur. 2:49. 1836 [1837], *nom.*, subgen. *Paniopsis* Raf. (Type *Erigeron viscosus* Linn.)=*Inula* Linn.
- STAEHELINA** Linn.; Raf. Fl. Tellur. 4:118. 1836 [1838], *descr.*; sensu Raf.=*Helipterum* DC. (1837).
- squarrosa* Raf. l.c., *descr.*, sub *Anaxeton* Raf. (*Leyssera squarrosa* Thunb.; *Staelina gnaphaloides* Linn.). South Africa=*Helipterum gnaphaloides* (Linn.) DC.
- STEIRACTIS** Raf. Fl. Tellur. 3:5. 1836 [1837], *nom. nov.* *Oxyura* "Lindl." [DC.]=*Laya* [Layia] Hook. & Arn. (1833, 1838), *nom. conserv.* (*Blepharipappus* Hook., 1834, p.p.).
- ***STELLIMIA** Raf. Herb. Raf. 52. 1833, *nom.*, *nota* (aff. *Pectis* Linn.)=*Pectis* Linn.
- **pectoides* Raf. l.c., *nom.* Rocky Mountains or Oregon.
- STELMANIS** Raf. Fl. Tellur. 2:47. 1836 [1837], *descr.*, *non* *Stelmanis* Raf. (1840)=*Heterotheca* Cass. (1817).
- scabra* Raf. l.c., *descr.* (*Chrysopsis scabra* Ell.). Carolina=*Heterotheca subaxillaris* (Lam.) Britton (*H. lamarckii* Cass.).
- #**STENACTILA** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.*, subgen. *Solidago* Linn. (Type *Solidago sempervirens* Linn.)=*Solidago* Linn.
- STEVIA** Cav.
- ovata* Raf. New Fl. N. Am. 4:73. 1836 [1838], *descr.* Arkansas, Texas.
- STRUMARIUM** Raf. Ann. Gén. Sci. Phys. 6:89. 1820, *nom. nov.* *Xanthium* Linn.
- STYLIMNUS** Raf. Jour. Phys. Chim. Hist. Nat. 89:100. 1819, *descr.*; Isis von Oken 1820, 1: Lit. Anz. 239. 1820, *descr.* (Type *Conyza marylandica* Michx.=*Pluchea* Cass. (1817)).
- maritimus* Raf. ex DC. Prodr. 5:452. 1836, *nom.* in syn. sub *Pluchea marylandica* Cass. Eastern North America=*Pluchea marylandica* (Michx.) Cass.
- SYNOSMA** Raf. Loud. Gard. Mag. 8:247. 1832, *nom.*, *nota*, iter. Schlecht. Linnaea 8: Lit.-Ber. 71. 1833, iter. Britten, Jour. Bot. 38:227. 1900=*Cacalia* Linn.
- reniformis* Raf. ex Jacks*. Ind. Kew. 2:1025. 1895 (*Cacalia reniformis* Muhl.). Eastern North America.
- suaveolens* Raf. ex Jacks*. l.c. (*Cacalia suaveolens* Linn.). Eastern North America.
- TANAXION** Raf. Fl. Tellur. 2:51. 1836 [1837], *nom. nov.* *provis.*, *nota*, sub *Diplemium* Raf.=*Pluchea* Cass. (1817).
- tomentosum* Raf. l.c., *descr.* (*Erigeron bahamensis* Scop.). Bahamas=*Pluchea odorata* (Linn.) Cass. fide Blake in lit.
- TELESIA** Raf. Fl. Tellur. 2:41. 1836 [1837], *descr.*=*Zexmenia* La Llave & Lex. (1824).
- aurea* Raf. l.c., *descr.* (*Wedelia aurea* D. Don; Hook. Bot. Mag. 62: t. 3384. 1835). Mexico=*Zexmenia aurea* (D. Don) Benth. & Hook. f. ex Hemsl.
- #**TERETIOLA** Raf. New Fl. N. Am. 4:75. 1836 [1838], *descr.*, subgen. *Liatris* Schreb.
- ***TETRAGONOTPECA** Raf. Am. Monthly Mag. Crit. Rev. 2:268. 1818, *nom.*, *sphalm.*=*Tetragonotheca* Linn.
- THEROLEPTA** Raf. Neogen. 3. 1825, *descr.*; Life of Travels 68. 1836, *nom.*; New Fl. N. Am. 4:78. 1836 [1838], *nom.* sub *Marshallia tenuifolia* Raf.=*Marshallia* Schreb. (1791).
- pumila* Raf. Neogen. l.c., *descr.* (*Marshallia pumila* Raf.). Western Kentucky.
- ***TOMISTA** Raf. New Fl. N. Am. 4:73. 1836 [1838], *nom.*, *nota* (Type *Stevia pedata* Cav. [= *Florestina pedata* Cass.])=*Florestina* Cass. (1815).
- #**TRIACTIS** Raf. Fl. Tellur. 2:42. 1836 [1837], *descr.* subgen. *Solidago* Linn. (Type *Solidago retrorsa* Michx.)=*Solidago* Linn.
- TRIPOLION** Raf. Fl. Tellur. 2:46. 1836 [1837], *descr.*=*Aster* Linn.
- maritimum* Raf. l.c., *nom.* (*Aster tripolium* Linn.). Europe.

- tataricum* Raf. ex Jacks*. Ind. Kew. 2:1122. 1895 (*Aster tataricus* Linn. f.). Tartary.
- tenellum* Raf. ex Jacks*. l.c. (*Aster tenellus* Linn.). South Africa=*Felicia tenella* (Linn.) Nees (*F. fragilis* Cass.).
- TROXIMON** Nutt. (1813), *non* Gaertn. (1791)=*Agoseris* Raf. (1817).
- bulbosum* Raf. Fl. Ludovic. 57. 1817, *descr.* (*Leontodon bulbosus* sensu Rob. Voy. Louis. 3:425. 1807). Louisiana=*Krigia dandelion* (Linn.) Nutt.
- odoratum* Raf. op. cit. 58, *descr.* (*Chicorace fenouillette* Rob. Voy. Louis. 3:425. 1807). Louisiana.
- pallidum* Raf. op. cit. 59, *descr.* (*Helmini[h]ia echinoides* sensu Rob. Voy. Louis. 3:426. 1807). Louisiana.
- **virginicum* Raf. Fl. Ludovic. 58. 1817, *nom.* Virginia.
- TULAKENIA** Raf. Fl. Tellur. 4:120. 1836 [1838], *descr.*=*Jurinea* Cass. (1821).
- blanda* Raf. l.c., *nom.* (*Serratula blanda* Bieb.). Europe=*Jurinea mollis* (Scop.) Reichenb.
- cyanooides* Raf. l.c., *nom.* (*Serratula cyanooides* DC.). Caucasus, Siberia=*Jurinea cyanooides* DC.
- mollis* Raf. l.c., *nom.* (*Cirsium molle* Scop.; *Serratula simplex* DC.; Sims Bot. Mag. 51: t. 2482. 1824). Europe=*Jurinea mollis* (Scop.) Reichenb.
- TULOCLINIA** Raf. Fl. Tellur. 4:119. 1836 [1838], *descr.*=*Metalsia* R. Br. (1817).
- imbricata* Raf. l.c., *descr.* (*Staelina imbricata* K. Berg.). South Africa=*Metalsia imbricata* (K. Berg.) Haw. (*M. uniflora* D. Don).
- VENATRIS** Raf. Fl. Tellur. 2:45, *nom.*, 47, *descr.*, 1836 [1837] =*Aster* Linn.
- falcata* Raf. l.c., *descr.* Eastern Kentucky, at the falls of the Cumberland River.
- linifolia* Raf. ex Jacks*. Ind. Kew. 2:1173. 1895 (*Aster linifolius* Linn.). Europe.
- pauciflora* Raf. ex Jacks*. l.c. (*Aster pauciflorus* Nutt.). North America.
- salicifolia* Raf. ex Jacks*. l.c. (*Aster salicifolius* Ait.). North America.
- tenuifolia* Raf. ex Jacks*. l.c. (*Aster tenuifolius* Linn.). Eastern North America.
- VERNASOLIS** Raf. Atl. Jour. 1:152. 1832, *descr.*; New Fl. N. Am. 1:6. 1836, *nom.*; op. cit. 2:16. 1836 [1837], *nom.*; Life of Travels 68. 1836, *nom.*=*Coreopsis* Linn.
- auriculata* Raf. Atl. Jour. 1:152. 1832, *descr.*; Herb. Raf. 61. 1833, *nom.* Western Kentucky and Tennessee=*Coreopsis auriculata* Linn.
- glauca* Raf. l.c., *descr.*, *nom.* Western Kentucky and Tennessee.
- var. *parviflora* Raf. Atl. Jour. l.c., *nom.*
- suboppositifolia Raf. l.c., *nom.*
- heterophylla* l.c., *descr.*, *nom.* (*heterophylla*). Western Kentucky and Tennessee.
- VERNONIA** Schreber (1791), *nom. conserv.* (Behen Hill, 1762).
- **alba* Raf. First Cat. Bot. Gard. Transylv. Univ. 16. 1824, *nom.*; Herb. Raf. 62. 1833, *nom.* Kentucky.
- albiflora* Raf. Herb. Raf. 29. 1833, *descr.*; New Fl. N. Am. 4:75. 1836 [1838], *nom.* Western Tennessee.
- **baldwini* Raf. New Fl. N. Am. 4:77. 1836 [1838], *nom.*=*Vernonia baldwini* Torr. South Central United States.
- brevifolia* Raf. op. cit. 75, *nom.*, 77, *descr.* Alabama.
- crinita* Raf. l.c., *nom.*, *descr.* Louisiana and Arkansas (*V. arkansana* DC., 1838; *Cacalia arkansana* O. Kuntze, 1891).
- **humilis* Raf. l.c. 75, *nom.* [North America].
- **latifolia* Raf. l.c., *nom.* [North America].
- **longifolia* Raf. l.c., *nom.* [North America].
- marginata* (Torr.) Raf. Atl. Jour. 1:146. 1832, *nom.* (*Vernonia altissima* Nutt. var. *marginata* Torr. Ann. Lyc. Nat. Hist. N. Y. 2:210. 1827). Arkansas River (*V. jamesii* Torr. & Gray, 1841).
- **missurica* Raf. Herb. Raf. 28, *descr.*, 62, *nom.* 1833; New Fl. N. Am. 4:75. 1836 [1838], *nom.* Missouri (*V. illinoensis* Gleason, 1906; *V. reedii* Daniels, 1907).
- VIRGARIA** Raf. ex DC. Prodr. 5:243. 1836, *nom.* in syn.=*Aster* Linn.
- concolor* Raf. l.c., *nom.* in syn. sub *Aster concolor* Linn. North America.
- VIRGULUS** Raf. Fl. Tellur. 2:46. 1836 [1837], *descr.*=*Aster* Linn.
- concolor* Raf. ex Jacks*. Ind. Kew. 2:1210. 1895 (*Aster concolor* Linn.). North America.

- XALKITIS** Raf. New Fl. N. Am. 4:71. 1836 [1838], *nom. alt.* *Bindera* Raf.=Quid?
ciliata Raf. l.c., *nom. alt.* *Bindera ciliata* Raf. Southeastern United States.
- XANTHIUM** Linn.
 **crassum* Raf. Med. Fl. 2:275. 1830, *nom.* (*X. strumarium* auct.). North America.
 †*maculatum* Raf. Fl. Ludovic. 167. 1817, *nom.*, *nota*; Am. Monthly Mag. Crit. Rev. 2:344. 1818, *nom.* (prob. *X. strumarium* sensu Bigelow); Am. Jour. Sci. 1:152. 1818, *descr.*; Spreng. Neue Entdeck. 1:143. 1820, l.c., *descr.* Long Island, New Jersey, Pennsylvania=*X. echinatum* Murr.
 **undulatum* Raf. Med. Fl. 2:275. 1830, *nom.* (*X. orientale* auct.). North America.
- ***XEREGATHIS** Raf. Herb. Raf. 58. 1833, *nom.*=*Baccharis* Linn.
 **glomerata* Raf. l.c., *nom.* (*Baccharis glomeruliflora* Pers.). Florida.
- XETOLIGUS** Raf. New Fl. N. Am. 4:74. 1836 [1838], *descr.*=*Stevia* Cav. (1797).
brevifolius Raf. l.c., *descr.*; Aut. Bot. 12. 1840, *nom.* Texas or Louisiana.
salicifolius Raf. New Fl. N. Am. l.c., *nom.* (*Stevia salicifolia* Cav.). Mexico.
- ZINNIA** Linn.
floridana Raf. New Fl. N. Am. 4:70. 1836 [1838], *descr.* Georgia, Florida=? *Z. multiflora* Linn.

UNPLACED GENERA

There is a surprisingly small residue of Rafinesque's new generic names which I have not been able to place in their proper families. They are mostly *nomina nuda*, but the following list includes a few of which were based on inadequate descriptions of earlier authors. In addition to these there are scattered entries in certain families where it is possible to place various described genera with certainty or with reasonable certainty, although it has not been possible in all cases to indicate what genus characterized by other authors may be represented. Examples are *Aimorra* Raf., *Aliseta* Raf. and *Bindera* Raf. of the Compositae; *Wilsonia* Raf. of the Epacridaceae, and *Flexularia* Raf. of the Gramineae. *Hydropixis* Raf. placed in the Scrophulariaceae might, in part, belong to *Centunculus* of the Primulaceae; and *Carpanthe* Raf.=*Carpanthus* Raf., placed in

the Scrophulariaceae, might belong with *Myriophyllum* of the Haloragidaceae. It was felt that such more or less doubtful Rafinesque genera were better placed under the families to which they probably belong, rather than to list them all among the few which could not be placed even to the family. Generic names which it has not been possible to place with reasonable certainty are usually followed by the expression "Quid?"

- ***ADIPSON** Raf. First Cat. Bot. Gard. Transylv. Univ. 13. 1824, *nom.* Quid?
 **rubrum* Raf. l.c., *nom.* Kentucky.
 **saxatile* Raf. l.c., *nom.* Kentucky.
- AGANON** Raf. ex Jacks*. Ind. Kew. 161. 1838, *sphalm.*=seq.
umbellata Raf. ex Jacks*. l.c., *sphalm.*=*Agonon umbellata* Raf.=seq.
- ***AGONON** Raf. Sylva Tellur. 161. 1838, *descr.* Quid?
 **umbellata* Raf. l.c., *descr.* (*Callicarpa umbellata* Lour.). Indo-China (Annam); see Merrill, Trans. Am. Philos. Soc. II. 24(2):399. 1935.
- ***HEMIARINUM** Raf. Anal. Nat. Tabl. Univ. 174. 1815, *nom.* In his Achenopsia, Nectridia, with *Coriaria* Linn., *Nectris* Schreb., *Cabomba* Aubl. and *Myriophyllum* Linn.
- ***HEPATITIS** Raf. Good Book 45. 1840, *nom.*
- ***HEXAMIUM** Raf. Anal. Nat. Tabl. Univ. 174. 1815, *nom.* In his Achenopsia, Nectridia, with *Coriaria* Linn., *Nectria* Schreb., *Cabomba* Aubl., and *Myriophyllum* Linn.
- NEMELAIA** Raf. Aut. Bot. 144. 1840, *descr.*; Pennell, Bull. Torr. Bot. Club 48:95. 1921, *nom.* Quid?
laurina Raf. op. cit. 145, *descr.*; Pennell, l.c., *nom.* Pyrenees Mountains.
- ***OXYURUS** Raf.⁴⁷ Fl. Tellur. 3:5. 1836 [1837], *nom.*, non *Oxyura* DC., 1836.
- ***SCLEROTRIS** Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.* Quid?
- SILAMNUS** Raf. Sylva Tellur. 60. 1838, *descr.* Quid?
procumbens Raf. op. cit. 61, *descr.* (*Cephalanthus procumbens* Lour.). Indo-China (Annam); see Merrill, Trans. Am. Philos. Soc. II. 24(2):400. 1935.
- ***XIPHODENDRON** Raf. New Fl. N. Am. 3:95. 1836 [1838], *nom.*

⁴⁷ "I hope he [Lindley] may admit that my previous Genera *Clintonia* (1817) *Oxyurus* (1810) etc., ought to prevail over his of same names, changed by me into *Gynampis* and *Steiractis*." *Oxyurus* Raf. was a manuscript name, which Rafinesque never considered elsewhere as far as I have been able to determine.

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⁴⁸ As the Rafinesque generic names in the text are arranged alphabetically under their respective families, and his binomials appear in alphabetic order under the generic names, only his generic and the modern major group names appear in this index. Supplementary to this are included the generic names and binomials of numerous other authors, including some of Rafinesque's, where such names appear in the text outside of the alphabetic sequences. Those generic names marked with an asterisk are not listed in standard indices.

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